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Monthly Precipitation Probabilities by Climatic Divisions

23 Eastern States From the Great Lakes to the Gulf Coast

Miscellaneous Publication No. 1160

U.S. DEPARTMENT OF AGRICULTURE, Economic Research Service and
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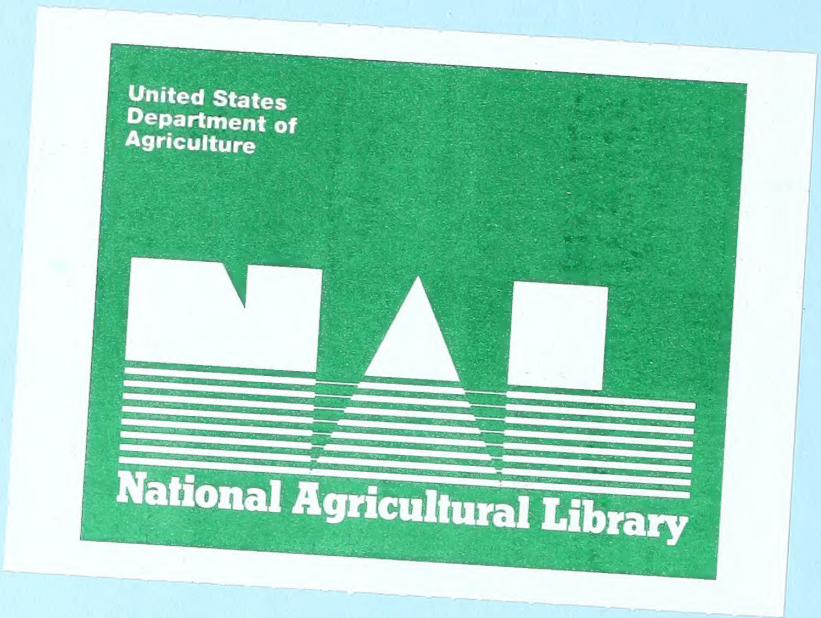
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PREFACE

This publication provides basic long-term data on the variability and dependability of an area's natural rainfall supply potential. In addition to providing a better understanding of the precipitation phenomena of an area, the data will also aid in the development of water resource management plans for the area. For example, the need for supplemental irrigation can be derived; adequacy of precipitation for municipal and industrial water supply can be determined; and the design and management of reservoir storage for flood control or low-flow augmentation can be estimated. These data will also be used in research work in the evaluation of projects or operations in a given area.

The research report was completed as a cooperative effort between the U.S. Department of Commerce, Environmental Science Services Administration, and the U.S. Department of Agriculture, Economic Research Service. Acknowledgment is made to Grady McKay, ESSA National Weather Records Center, Asheville, N. C., for the basic computer program used and to Priscilla Prophet, Computer Laboratory, Michigan State University, for data processing and programming assistance.

Washington, D. C. 20250 November 1969

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MONTHLY PRECIPITATION PROBABILITIES BY CLIMATIC DIVISIONS--23 EASTERN STATES FROM THE GREAT LAKES TO THE GULF COAST

by

Norton D. Strommen
State Climatologist, Michigan
Environmental Data Service, Environmental Science Services Administration

and

James E. Horsfield
Agricultural Economist
Natural Resource Economics Division, Economic Research Service

SUMMARY

This publication presents precipitation probability data by climatic divisions for 23 eastern States. The explanation of the development and application of the data use Maryland as an example. Data for other States can be interpreted in a similar manner.

INTRODUCTION

Through statistical analysis of past weather records, the future weather for an area can be projected. Today, with greater emphasis on area development potential and efficient use of our natural resources, many planners, researchers, and engineers seek more detailed climatological information. Precipitation probabilities interest these people, especially information on the variability and the dependability of the amount that can be expected. Precipitation probabilities derived from historical data can aid understanding of these aspects of precipitation and serve as basic data for the evaluation of an area's natural water supply potential. Precipitation probabilities can

also be used to show the differences between mean precipitation and amount which can be expected to occur half the time--information that is useful for research on irrigation planning and other water resource problems. In considering simple statistical frequency distribution curves, the arithmetic mean is one of the variables used to determine the normal distribution. In the normal distribution, the vertical line of symmetry occurs at the mean of the distribution, and is also the median and the mode value. The normal distribution provides a good fit for most climatological variables that are unbounded above and below, such as temperature. Precipitation is bounded at the lower end by zero. Appropriately, some distribution other than the normal distribution should be expected to provide the best fit for precipitation data.

This publication presents precipitation probability values derived by using the gamma probability function where the frequency distribution presented by Thom (1) 1/ for the random variable x is given by

$$f(x) = \frac{e^{-x/\beta} \; x^{m-1}}{\beta^{m} \; \Gamma(m)}$$

where x = precipitation amount

$$\beta = \frac{\bar{x}}{m}$$

m = gamma parameter as found from the equation:

$$12 \left(\ln \bar{x} - \frac{1}{N} \Sigma \ln x\right) m^{2} - 6m - 1 = 0$$

$\Gamma(m)$ = gamma function, $\int_{0}^{x} e^{-x} x^{m-1} dx$, $0 \leq x \leq \infty$, $m > 0$

1/ Underscored numbers in parentheses refer to items in the Selected References, p. 7.

It does not present the details of the development and application of this method. The user is instead referred to articles by Thom (1, 2, 4, and 6); Friedman and Janes (3); and Barger, Shaw, and Dale (5), all of whom have shown that the gamma probability function gives a good fit for precipitation in a climatological data series. Utilizing this method, monthly precipitation probability values for each climatic division for 23 States have been calculated as have monthly probabilities for at least one major weather station in each of these States.

DATA

The precipitation data for the climatic divisions were compiled at the National Weather Records Center at Asheville, N.C., and were published in summary form in Climatography of the United States No. 85-* 2/ in 1963 and the State Monthly Climatological Data series. These data consist of the arithmetic averages of monthly precipitation data from the cooperative climatological stations within each climatic division for the period 1931-65. The boundaries of climatic divisions have been carefully drawn to give a division as much uniformity in its observed climate as possible. To illustrate how point and area values compare, the precipitation probability totals or values for a single station (point) within one of the climatic divisions of each State have been provided for comparative purposes with the division data. For Maryland, Baltimore, located in the Upper Southern Climatic Division, was used (p. 60). The good agreement between the station and the climatic division averages suggest that in most cases, the division probabilities adequately represent the expected precipitation amounts. In mountainous areas where very substantial terrain changes occur, local climatic differences are substantial

2/ The asterisk represents the special number assigned to each State.

and the point versus division data will exhibit larger departures, particularly in the relatively low and relatively high probability categories. Because of these large climatic changes in short distances in the mountains, extreme care must be used in the application or interpretation of these data. Also, points in the fringe area of the larger climatic divisions might also exhibit somewhat larger departures from the division data. A third factor which could cause some difference is the distribution of the climatological stations within the division. This factor may have produced a greater bias in earlier years when stations tended to be clustered in the urban areas. The effect of this is now minimized by the systematic location of climatological stations on a grid of points, with a single station designed to represent an area of approximately 600 square miles.

The precipitation data for the individual stations used in this study were taken from annual summaries for each station and, in general, cover the period 1931-67.

RESULTS AND INTERPRETATION

The calculated probability values or totals are presented in tables, by months. Included in the tables are the monthly mean precipitation amounts and the two parameters, gamma and beta of the gamma probability function, which describe the incomplete gamma function. As an example, in table 44, the Southern Eastern Shore Climatic Division of Maryland (p. 61), we find under the 30-percentile column (shown in the table as 0.30), and across from January, 2.71. This indicates that in 3 years out of 10, the January precipitation total is expected to be equal to or less than 2.71 inches, or alternatively, that in 7 years out of 10, the January precipitation total is expected to exceed 2.71 inches. At the 70-percentile level for January, we find 4.27, indicating that in 7 years out of 10, the precipitation total is expected to

be equal to or less than 4.27 inches or that in 3 years out of 10, it is expected to be greater than 4.27 inches.

In using the gamma probability function, two parameters must be estimated. The shape parameter, gamma, is inversely related to the skewness. That is, a smaller gamma indicates that a few large values cause positive skewness and that the mean departs further from the median value. A large gamma causes the probability function to approach normality. Beta, the scale parameter, indicates range or dispersion with a larger beta indicating a greater tendency to deviate from either the mean or the median.

These characteristics can be illustrated with data from Maryland's Lower Southern Climatic Division (p. 62). For example, in January, we find the 50-percentile value is 3.24 inches while in August, it is 4.32 inches. In general, this indicates that larger precipitation amounts can be expected in August than in January. By comparing the differences in the expected precipitation amounts for the high and low probabilities for these 2 months, we can assess the dependability of the precipitation. In January, the range between the 5-percentile precipitation amount and the 95-percentile amount is 5.33 inches. In August, the range between the same probabilties is 8.99 inches. Thus, while a larger amount of precipitation can generally be expected in August, relative to January, the August precipitation amounts over a period of years will show greater variation.

This type of information can be extremely valuable in planning for municipal or industrial water supplies or irrigation needs. It indicates both the distribution of the potential supply over the year and the probability that facilities will be necessary for the storage or release of water from month to month. It also emphasizes the inadequacies inherent in using the simple average of area precipitation for planning. In the cases computed for this

study, the 50-percentile value is less than the arithmetic average which has generally been used. This occurs because precipitation totals are bounded by zero on one end of the scale but are unlimited on the other end. Thus, the occurrence of large monthly totals in a series tends to push the monthly average amount above the amount that can be expected one-half of the time; that is, the 50-percentile value.

The mean value, however, has some advantages as it is easily computed, the sum of a number of events divided by the number of events. The mean may be combined directly with further accumulated means, for example, the monthly means can be combined to give the annual mean. The mean is also estimated from sample data as efficiently as any other statistic in a given distribution.

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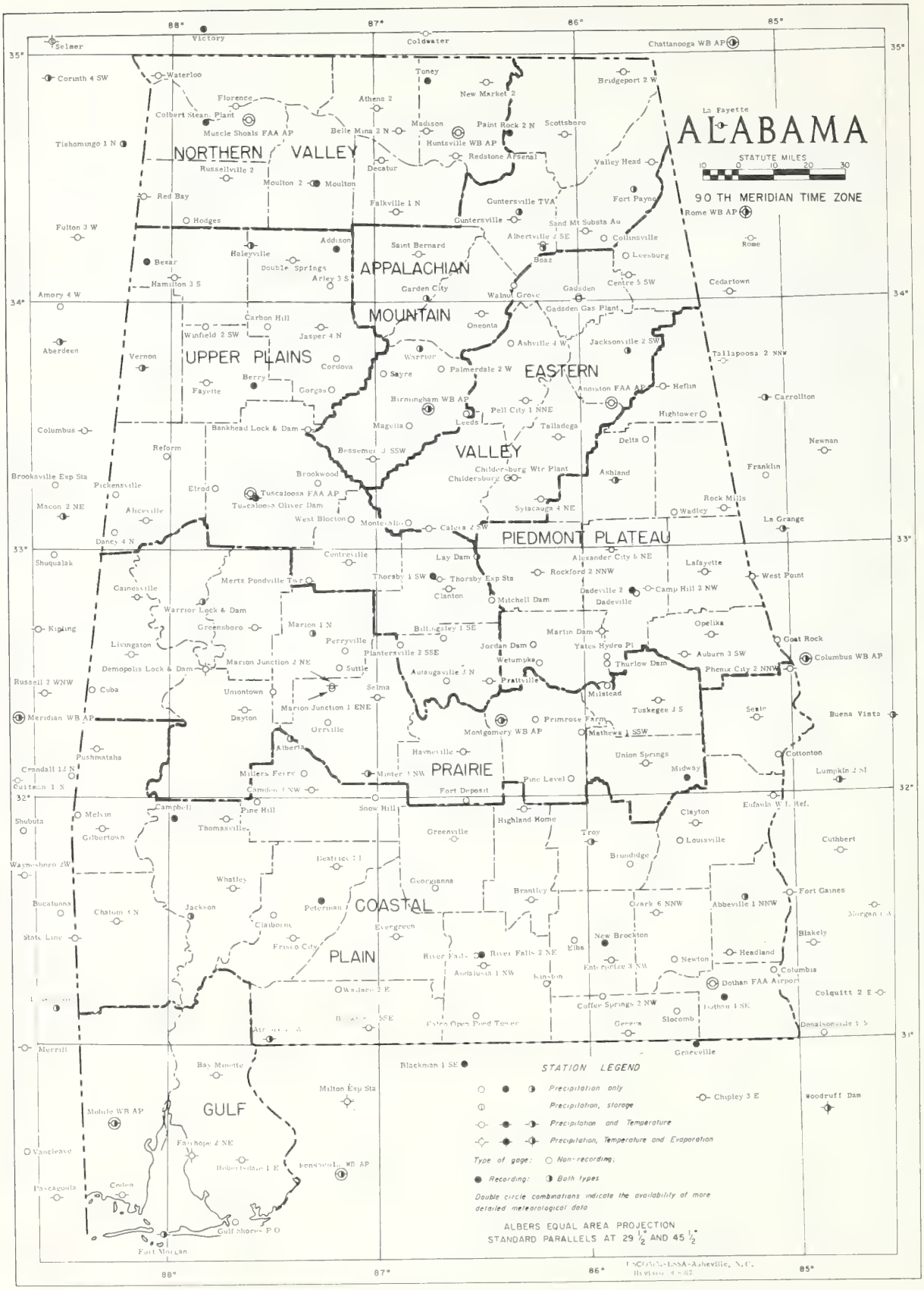

ALABAMA
STATUTE MILES
90 TH MERIDIAN TIME ZONE
NORTHERN VALLEY
APPALACHIAN MOUNTAIN
UPPER PLAINS
EASTERN VALLEY
PIEDMONT PLATEAU
PRAIRIE
COASTAL PLAIN
GULF
Selmer
Victory
Coldwater
Chattanooga WB AP
Corinth 4 SW
Waterloo
Florence
Colbert Steam Plant
Muscle Shoals FAA AP
Tishomingo 1 N
Russellville 2
Moulton 2
Moulton
Red Bay
Fulton 3 W
Hodges
Bexar
Hamilton 3 S
Amory 4 W
Aberdeen
Vernon
Columbus
Brooksville Exp Sta
Macon 2 NE
Dancy 4 N
Shuqualak
Kipling
Meridian WB AP
Russell 2 WNW
Cuba
Crandall 1.2 N
Cuttman 1 N
Shubuta
Waynesboro 2W
Bucatunna
State Line
Merrill
Mobile WB AP
Vancleave
Pascagoula
Toney
Athens 2
Madison
Huntsville WB AP
Decatur
Falkville 1 N
Guntersville TVA
Guntersville
Addison
Haleyville
Double Springs
Arley 3 S
Saint Bernard
Garden City
Carbon Hill
Winfield 2 SW
Jasper 4 N
Cordova
Berry
Fayette
Gorgas
Bankhead Lock & Dam
Reform
Pickensville
Aliceville
Elrod
Tuscaloosa FAA AP
Tuscaloosa Oliver Dam
West Blocton
Centreville
Mertz Pondville Twr
Gainesville
Warrior Lock & Dam
Greensboro
Livingston
Demopolis Lock & Dam
Marion 1 N
Perryville
Marion Junction 4 NE
Suttle
Uniontown
Dayton
Marion Junction 1 ENE
Selma
Orrville
Alberta
Millers Ferry
Camden 1 NW
Pushmataha
Campbell
Pine Hill
Thomasville
Melvin
Gilbertown
Whatley
Jackson
Claiborne
Frisco City
Chatom 4 N
Bay Minette
Milton Exp Sta
Robertsdale 1 E
Foley
Gulf Shores P O
Fort Morgan
Paint Rock 2 N
Scottsboro
Huntsville WB AP
Redstone Arsenal
Moulton
Valley Head
Fort Payne
Sand Mt Substa Au
Albertville 2 SE
Collinsville
Boaz
Luesburg
Centre 5 SW
Cedartown
Rome WB AP
Rome
Gadsden
Walnut Grove
Gadsden Gas Plant
Oneonta
Ashville 4 W
Jacksonville 2 SW
Tallapoosa 2 NNW
Warrior
Palmerdale 2 W
Sayre
Birmingham WB AP
Pell City 1 NNE
Leeds
Talladega
Anniston FAA AP
Heflin
Carrollton
Hightower
Delta
Newnan
Franklin
Childersburg Wtr Plant
Childersburg
Ashland
Sylacauga 4 NE
Rock Mills
Wadley
La Grange
Montevallo
Calera 2 SW
Lay Dam
Alexander City 6 NE
Rockford 2 NNW
Lafayette
West Point
Thorsby 1 SW
Thorsby Exp Sta
Clanton
Mitchell Dam
Dadeville 2
Dadeville
Camp Hill 2 NW
Martin Dam
Opelika
Goat Rock
Columbus WB AP
Billingsley 1 SE
Jordan Dam
Yates Hydro Pl
Auburn 3 SW
Plantersville 2 SSE
Wetumpka
Thurlow Dam
Phenix City 2 NNW
Autaugaville 3 N
Prattville
Milstead
Tuskegee 3 S
Seale
Buena Vista
Primrose Farm
Montgomery WB AP
Mathews 1 SSW
Union Springs
Cottonton
Midway
Lumpkin 2 SE
Hayneville
Minter 1 NW
Fort Deposit
Pine Level
Snow Hill
Highland Home
Greenville
Troy
Clayton
Louisville
Enfaula W L Ref.
Cuthbert
Brundidge
Georgiana
Brantley
Fort Gaines
Ozark 6 NNW
Abbeville 1 NNW
Blakely
New Brockton
Elba
Newton
Headland
Columbia
Dothan FAA Airport
Dothan 1 SE
Colquitt 2 E
Coffee Springs 2 NW
Slocomb
Donalsonville 1 S
Geneva
Samson 1 S
Andalusia 1 NW
Kinston
Evergreen
Beatrice 1 E
Waldo 2 E
Fairhope 2 NE
Robertsdale 1 E
Pensacola WB AP
Blackman 1 SE
Graceville
Chipley 3 E
Woodruff Dam
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage: Non-recording;
Recording: Both types
Double circle combinations indicate the availability of more detailed meteorological data
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2° AND 45 1/2°
88°
87°
86°
85°
35°
34°
33°
32°
31°

TABLE 1 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Montgomery, Alabama

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.18	4.03	1.04	1.43	1.83	2.41	2.89	3.36	3.84	4.36	4.97	5.76	6.97	8.08
February	4.60	4.58	1.00	1.72	2.15	2.76	3.28	3.77	4.27	4.81	5.44	6.24	7.47	8.60
March	5.97	4.64	1.29	2.25	2.80	3.60	4.27	4.90	5.54	6.24	7.05	8.08	9.67	11.12
April	4.71	2.40	1.97	1.03	1.47	2.16	2.78	3.41	4.08	4.83	5.73	6.91	8.79	10.57
May	3.23	3.15	1.02	0.92	1.22	1.69	2.09	2.48	2.89	3.35	3.88	4.58	5.66	6.68
June	4.06	4.63	0.88	1.53	1.91	2.45	2.90	3.33	3.77	4.25	4.80	5.50	6.58	7.57
July	5.12	5.89	0.87	2.21	2.67	3.31	3.84	4.33	4.82	5.36	5.97	6.74	7.91	8.95
August	3.89	3.44	1.13	1.19	1.56	2.11	2.58	3.04	3.52	4.04	4.66	5.45	6.70	7.85
September	4.01	1.57	2.55	0.51	0.83	1.39	1.95	2.54	3.20	3.96	4.90	6.17	8.26	10.27
October	2.31	1.01	2.29	0.12	0.25	0.52	0.83	1.19	1.61	2.12	2.78	3.72	5.31	6.90
November	3.07	1.67	1.84	0.43	0.68	1.12	1.54	1.99	2.48	3.05	3.75	4.69	6.22	7.69
December	4.90	3.70	1.32	1.58	2.05	2.74	3.32	3.89	4.47	5.11	5.86	6.82	8.31	9.68

Division--Alabama Prairie Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.52	5.11	0.88	1.80	2.22	2.81	3.30	3.76	4.23	4.73	5.32	6.06	7.19	8.23
February	4.72	6.76	0.70	2.18	2.59	3.16	3.62	4.05	4.48	4.94	5.47	6.13	7.13	8.02
March	6.29	7.95	0.79	3.12	3.65	4.37	4.95	5.49	6.02	6.59	7.23	8.03	9.23	10.29
April	5.13	3.58	1.43	1.62	2.10	2.82	3.44	4.04	4.66	5.34	6.13	7.16	8.75	10.22
May	3.41	3.08	1.11	0.95	1.27	1.76	2.19	2.61	3.05	3.53	4.11	4.85	6.02	7.10
June	3.94	5.86	0.67	1.69	2.05	2.55	2.95	3.33	3.71	4.13	4.60	5.19	6.10	6.90
July	5.41	9.83	0.55	2.91	3.35	3.93	4.39	4.81	5.22	5.66	6.16	6.77	7.69	8.49
August	3.97	4.10	0.97	1.38	1.75	2.30	2.76	3.20	3.65	4.14	4.72	5.46	6.60	7.65
September	3.23	2.91	1.11	0.86	1.16	1.63	2.04	2.44	2.86	3.33	3.89	4.61	5.74	6.77
October	2.20	1.42	1.55	0.23	0.40	0.70	1.01	1.34	1.71	2.14	2.68	3.42	4.64	5.83
November	3.23	2.32	1.39	0.68	0.98	1.45	1.88	2.31	2.78	3.30	3.92	4.75	6.07	7.32
December	5.00	4.28	1.17	1.79	2.26	2.94	3.51	4.06	4.62	5.23	5.94	6.84	8.24	9.53

TABLE 2 - Precipitation Probabilities for Climatic Divisions

Alabama Northern Valley Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.44	3.75	1.45	1.77	2.29	3.05	3.70	4.32	4.96	5.67	6.49	7.55	9.19	10.70
February	4.96	3.72	1.33	1.61	2.08	2.77	3.37	3.94	4.52	5.17	5.92	6.89	8.40	9.78
March	6.04	6.76	0.89	2.79	3.32	4.05	4.64	5.19	5.74	6.33	7.01	7.86	9.13	10.28
April	4.63	5.83	0.79	1.99	2.40	2.99	3.46	3.91	4.36	4.85	5.41	6.11	7.17	8.13
May	3.41	4.19	0.81	1.20	1.53	1.99	2.39	2.76	3.15	3.57	4.06	4.68	5.65	6.54
June	3.65	3.94	0.92	1.23	1.58	2.08	2.51	2.92	3.34	3.80	4.33	5.02	6.08	7.03
July	4.40	5.48	0.80	1.83	2.23	2.79	3.26	3.69	4.13	4.61	5.16	5.85	6.91	7.87
August	3.48	4.49	0.78	1.29	1.61	2.08	2.47	2.85	3.23	3.64	4.13	4.74	5.69	6.55
September	3.27	2.79	1.17	0.83	1.14	1.62	2.04	2.45	2.89	3.37	3.95	4.70	5.88	6.98
October	2.68	1.67	1.61	0.37	0.59	0.98	1.35	1.74	2.17	2.67	3.28	4.10	5.44	6.73
November	3.91	2.96	1.32	1.05	1.42	1.99	2.48	2.96	3.47	4.03	4.70	5.56	6.91	8.14
December	5.00	3.53	1.42	1.56	2.03	2.74	3.35	3.93	4.54	5.20	5.99	7.00	8.57	10.02

Alabama Appalachian Mountain Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.54	3.95	1.40	1.88	2.40	3.17	3.81	4.44	5.08	5.78	6.59	7.63	9.24	10.69
February	4.56	2.01	2.27	0.81	1.22	1.89	2.51	3.14	3.83	4.61	5.56	6.83	8.86	10.81
March	6.36	10.13	0.63	3.46	3.97	4.64	5.18	5.67	6.15	6.66	7.23	7.95	9.01	9.96
April	4.89	5.30	0.92	1.99	2.44	3.07	3.60	4.09	4.59	5.12	5.74	6.53	7.73	8.83
May	3.44	4.80	0.72	1.32	1.64	2.10	2.47	2.83	3.20	3.59	4.05	4.63	5.52	6.33
June	4.02	6.40	0.63	1.81	2.17	2.66	3.06	3.44	3.82	4.22	4.68	5.26	6.15	6.94
July	4.95	5.55	0.89	2.07	2.52	3.16	3.68	4.16	4.66	5.19	5.80	6.58	7.76	8.83
August	3.93	5.75	0.68	1.68	2.03	2.53	2.94	3.32	3.71	4.12	4.60	5.20	6.12	6.94
September	3.10	2.70	1.15	0.77	1.06	1.51	1.91	2.31	2.73	3.19	3.75	4.47	5.62	6.69
October	2.81	1.46	1.92	0.32	0.53	0.92	1.31	1.73	2.20	2.75	3.43	4.36	5.89	7.38
November	4.00	3.03	1.32	1.10	1.48	2.06	2.56	3.05	3.57	4.14	4.82	5.70	7.08	8.37
December	5.20	3.76	1.38	1.70	2.19	2.91	3.53	4.13	4.74	5.41	6.20	7.21	8.77	10.21

TABLE 3 - Precipitation Probabilities for Climatic Divisions

Alabama Upper Plains Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.38	4.61	1.17	2.02	2.52	3.24	3.84	4.41	4.99	5.62	6.36	7.29	8.73	10.04
February	5.00	3.96	1.26	1.69	2.17	2.86	3.44	4.00	4.58	5.21	5.94	6.88	8.32	9.63
March	6.35	11.03	0.58	3.57	4.06	4.71	5.23	5.70	6.16	6.65	7.20	7.88	8.90	9.79
April	5.15	4.57	1.13	1.92	2.40	3.09	3.67	4.22	4.78	5.38	6.09	6.99	8.37	9.63
May	3.61	4.05	0.89	1.24	1.58	2.08	2.50	2.90	3.32	3.77	4.29	4.97	6.01	6.97
June	4.20	6.41	0.65	1.89	2.26	2.78	3.20	3.59	3.98	4.40	4.88	5.49	6.41	7.24
July	5.20	6.60	0.79	2.38	2.83	3.47	3.98	4.46	4.94	5.46	6.05	6.78	7.90	8.91
August	4.18	4.67	0.90	1.58	1.97	2.53	3.00	3.44	3.89	4.38	4.94	5.67	6.77	7.78
September	3.16	3.02	1.05	0.87	1.17	1.62	2.02	2.41	2.82	3.28	3.81	4.51	5.61	6.63
October	2.49	1.47	1.70	0.28	0.47	0.82	1.16	1.53	1.95	2.43	3.04	3.86	5.21	6.52
November	3.65	3.20	1.14	1.05	1.40	1.92	2.37	2.82	3.28	3.79	4.39	5.16	6.38	7.52
December	5.24	4.01	1.31	1.79	2.29	3.01	3.63	4.21	4.82	5.47	6.24	7.23	8.76	10.16

Alabama Eastern Valley Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.33	4.45	1.20	1.95	2.45	3.17	3.77	4.35	4.93	5.57	6.31	7.25	8.70	10.03
February	5.33	6.06	0.88	2.34	2.81	3.48	4.02	4.53	5.04	5.59	6.22	7.02	8.23	9.32
March	6.31	9.58	0.66	3.37	3.88	4.57	5.11	5.60	6.09	6.61	7.20	7.93	9.02	9.99
April	5.04	4.16	1.21	1.77	2.25	2.94	3.52	4.07	4.65	5.27	5.99	6.92	8.36	9.68
May	3.15	3.00	1.05	0.86	1.16	1.61	2.01	2.40	2.81	3.26	3.80	4.49	5.58	6.61
June	4.29	6.30	0.68	1.91	2.29	2.82	3.26	3.66	4.06	4.50	4.99	5.62	6.57	7.43
July	4.89	5.31	0.92	1.99	2.44	3.08	3.60	4.09	4.59	5.12	5.74	6.53	7.73	8.82
August	4.05	5.09	0.80	1.61	1.99	2.52	2.96	3.37	3.79	4.25	4.77	5.44	6.46	7.39
September	3.22	2.35	1.37	0.69	0.99	1.46	1.89	2.32	2.78	3.30	3.92	4.73	6.04	7.27
October	2.57	1.40	1.84	0.27	0.46	0.81	1.17	1.56	1.99	2.51	3.14	4.01	5.45	6.86
November	3.41	2.85	1.19	0.89	1.21	1.70	2.14	2.56	3.01	3.51	4.11	4.88	6.09	7.21
December	5.19	3.11	1.67	1.46	1.95	2.70	3.35	3.98	4.65	5.38	6.25	7.37	9.14	10.78

TABLE 4 - Precipitation Probabilities for Climatic Divisions

Alabama Piedmont Plateau Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.96	4.57	1.08	1.85	2.31	2.98	3.54	4.06	4.60	5.19	5.87	6.73	8.06	9.28
February	5.06	5.76	0.88	2.16	2.62	3.26	3.78	4.27	4.77	5.31	5.92	6.69	7.87	8.93
March	6.51	10.11	0.64	3.55	4.06	4.76	5.30	5.80	6.30	6.82	7.41	8.14	9.24	10.21
April	5.48	3.96	1.38	1.86	2.38	3.13	3.77	4.39	5.02	5.71	6.51	7.54	9.12	10.55
May	3.32	3.46	0.96	1.02	1.33	1.80	2.21	2.60	3.00	3.45	3.97	4.65	5.71	6.68
June	4.16	7.80	0.53	2.05	2.40	2.88	3.27	3.62	3.98	4.36	4.79	5.33	6.13	6.85
July	5.33	7.83	0.68	2.63	3.08	3.70	4.19	4.65	5.11	5.59	6.14	6.83	7.86	8.78
August	4.40	5.45	0.81	1.82	2.22	2.79	3.26	3.69	4.14	4.61	5.17	5.86	6.93	7.89
September	3.48	2.82	1.23	0.90	1.23	1.73	2.18	2.62	3.08	3.59	4.20	5.00	6.24	7.40
October	2.26	1.07	2.12	0.14	0.27	0.54	0.85	1.20	1.61	2.10	2.74	3.62	5.13	6.63
November	3.47	2.29	1.51	0.72	1.04	1.55	2.01	2.48	2.98	3.54	4.21	5.11	6.53	7.88
December	5.10	3.71	1.37	1.65	2.14	2.85	3.46	4.04	4.65	5.32	6.09	7.09	8.64	10.07

Alabama Coastal Plain Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.65	4.72	0.99	1.77	2.20	2.82	3.34	3.83	4.33	4.87	5.49	6.29	7.51	8.62
February	4.66	5.36	0.87	1.91	2.34	2.94	3.44	3.90	4.38	4.89	5.47	6.22	7.36	8.39
March	6.30	4.41	1.43	2.30	2.89	3.74	4.46	5.13	5.83	6.59	7.47	8.59	10.32	11.90
April	5.51	4.31	1.28	1.98	2.50	3.25	3.88	4.48	5.09	5.76	6.54	7.53	9.07	10.48
May	3.91	3.31	1.18	1.16	1.53	2.09	2.57	3.04	3.53	4.06	4.69	5.51	6.79	7.98
June	4.64	6.39	0.73	2.08	2.50	3.07	3.53	3.96	4.40	4.86	5.40	6.07	7.09	8.01
July	6.75	10.89	0.62	3.77	4.30	5.00	5.55	6.05	6.54	7.07	7.65	8.38	9.45	10.39
August	5.16	5.63	0.92	2.17	2.64	3.30	3.84	4.34	4.86	5.41	6.04	6.84	8.06	9.17
September	4.34	4.15	1.04	1.52	1.93	2.52	3.02	3.50	3.99	4.53	5.15	5.95	7.19	8.32
October	2.21	1.15	1.93	0.16	0.29	0.58	0.88	1.22	1.61	2.08	2.68	3.51	4.92	6.31
November	3.36	2.05	1.64	0.62	0.92	1.41	1.87	2.33	2.84	3.41	4.10	5.02	6.50	7.91
December	5.09	4.17	1.22	1.79	2.27	2.96	3.55	4.11	4.69	5.31	6.04	6.98	8.42	9.75

TABLE 5 - Precipitation Probabilities for Climatic Divisions

Alabama Gulf Division

Month	Mean	Gamma	Beta	Probabilities (Based on 35 years of data) 0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.65	4.13	1.12	1.62	2.06	2.70	3.24	3.75	4.28	4.85	5.52	6.38	7.71	8.93
February	4.40	4.42	1.00	1.61	2.02	2.61	3.11	3.58	4.07	4.60	5.21	5.99	7.20	8.30
March	6.51	3.36	1.94	1.95	2.57	3.49	4.29	5.07	5.88	6.76	7.81	9.16	11.27	13.23
April	5.88	2.68	2.19	1.44	1.99	2.85	3.61	4.36	5.16	6.05	7.11	8.49	10.67	12.72
May	4.65	3.19	1.46	1.34	1.78	2.45	3.02	3.59	4.18	4.82	5.59	6.58	8.14	9.59
June	6.14	4.46	1.38	2.26	2.83	3.66	4.35	5.01	5.69	6.42	7.27	8.36	10.03	11.56
July	8.71	6.28	1.39	3.88	4.66	5.74	6.61	7.43	8.25	9.14	10.15	11.42	13.35	15.10
August	6.21	6.40	0.97	2.79	3.34	4.11	4.73	5.30	5.89	6.51	7.22	8.12	9.48	10.71
September	6.26	3.16	1.98	1.78	2.38	3.27	4.05	4.81	5.61	6.49	7.52	8.87	10.98	12.94
October	2.80	1.13	2.48	0.19	0.36	0.72	1.10	1.53	2.03	2.63	3.39	4.46	6.26	8.04
November	3.49	1.71	2.04	0.50	0.79	1.29	1.78	2.28	2.84	3.48	4.27	5.32	7.04	8.69
December	5.07	4.74	1.07	1.93	2.41	3.08	3.64	4.18	4.72	5.31	5.99	6.86	8.18	9.39

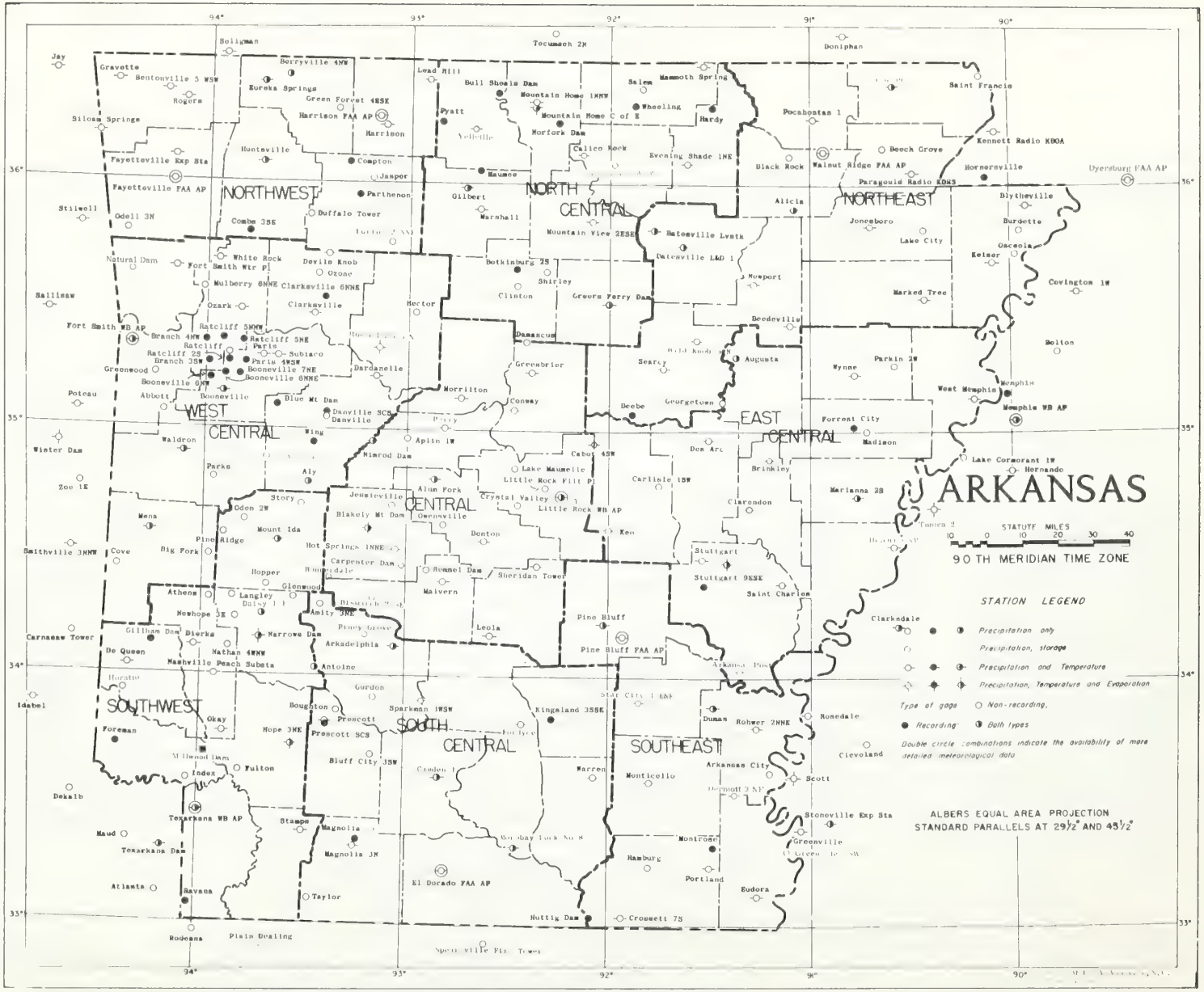

ARKANSAS
NORTHWEST
NORTH CENTRAL
NORTHEAST
WEST CENTRAL
CENTRAL
EAST CENTRAL
SOUTHWEST
SOUTH CENTRAL
SOUTHEAST
94°
93°
92°
91°
90°
36°
35°
34°
33°
STATUTE MILES
10 0 10 20 30 40
90 TH MERIDIAN TIME ZONE
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage ○ Non-recording, ● Recording ◑ Both types
Double circle combinations indicate the availability of more detailed meteorological data
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29½° AND 45½°

TABLE 6 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Little Rock, Arkansas

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.75	1.65	2.87	0.65	1.04	1.71	2.37	3.06	3.83	4.71	5.79	7.26	9.65	11.95
February	4.31	3.07	1.40	1.20	1.61	2.23	2.77	3.30	3.85	4.46	5.19	6.13	7.61	8.99
March	4.78	3.53	1.35	1.49	1.94	2.62	3.20	3.76	4.34	4.97	5.72	6.69	8.19	9.58
April	4.99	3.64	1.37	1.59	2.06	2.76	3.36	3.94	4.54	5.19	5.96	6.95	8.48	9.89
May	5.01	2.92	1.72	1.33	1.80	2.53	3.16	3.79	4.44	5.17	6.03	7.15	8.89	10.51
June	3.35	1.23	2.72	0.27	0.50	0.94	1.40	1.91	2.50	3.20	4.07	5.29	7.32	9.32
July	3.39	3.65	0.93	1.08	1.41	1.88	2.29	2.68	3.09	3.53	4.05	4.73	5.77	6.73
August	3.04	1.73	1.76	0.45	0.70	1.14	1.56	2.00	2.48	3.04	3.71	4.63	6.11	7.53
September	3.38	2.00	1.69	0.60	0.90	1.39	1.85	2.32	2.83	3.41	4.11	5.03	6.52	7.91
October	2.66	1.15	2.31	0.19	0.35	0.69	1.06	1.47	1.94	2.50	3.22	4.22	5.91	7.58
November	3.94	2.36	1.67	0.85	1.21	1.79	2.32	2.84	3.40	4.03	4.79	5.79	7.38	8.88
December	4.04	4.29	0.94	1.45	1.83	2.38	2.84	3.28	3.73	4.22	4.79	5.52	6.65	7.69

Division--Arkansas Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.87	2.24	2.17	0.99	1.44	2.15	2.80	3.46	4.17	4.97	5.93	7.19	9.22	11.15
February	4.36	2.69	1.62	1.07	1.48	2.12	2.68	3.24	3.83	4.49	5.28	6.30	7.92	9.43
March	4.94	4.14	1.19	1.73	2.20	2.87	3.44	3.99	4.55	5.16	5.88	6.79	8.20	9.49
April	5.43	4.67	1.16	2.05	2.56	3.29	3.89	4.46	5.05	5.68	6.42	7.36	8.79	10.10
May	5.71	4.68	1.22	2.16	2.69	3.45	4.09	4.69	5.30	5.97	6.74	7.72	9.23	10.60
June	4.21	2.63	1.60	1.02	1.41	2.03	2.57	3.12	3.69	4.34	5.10	6.10	7.69	9.18
July	3.76	3.30	1.14	1.11	1.47	2.01	2.47	2.92	3.39	3.91	4.52	5.31	6.54	7.69
August	3.15	2.74	1.15	0.79	1.09	1.55	1.95	2.36	2.78	3.25	3.81	4.54	5.70	6.78
September	3.32	2.71	1.22	0.82	1.14	1.62	2.05	2.47	2.92	3.42	4.01	4.78	6.00	7.14
October	3.25	2.53	1.29	0.75	1.06	1.53	1.96	2.38	2.84	3.34	3.94	4.73	5.99	7.17
November	4.37	2.21	1.97	0.88	1.27	1.92	2.50	3.10	3.73	4.45	5.32	6.46	8.30	10.04
December	4.38	3.98	1.10	1.49	1.90	2.51	3.02	3.51	4.02	4.57	5.21	6.03	7.29	8.43

TABLE 7 - Precipitation Probabilities for Climatic Divisions

Arkansas Northwest Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.57	1.64	1.56	0.35	0.56	0.92	1.28	1.66	2.07	2.55	3.13	3.93	5.22	6.47
February	3.13	2.45	1.27	0.70	0.99	1.45	1.86	2.27	2.71	3.20	3.79	4.57	5.80	6.96
March	3.53	2.79	1.26	0.90	1.23	1.75	2.20	2.65	3.12	3.64	4.26	5.07	6.35	7.53
April	4.59	5.41	0.85	1.89	2.31	2.90	3.39	3.85	4.31	4.81	5.39	6.12	7.23	8.24
May	6.08	3.33	1.83	1.81	2.39	3.25	4.00	4.73	5.48	6.31	7.29	8.56	10.54	12.38
June	5.14	2.48	2.07	1.17	1.65	2.40	3.08	3.75	4.47	5.27	6.23	7.50	9.51	11.40
July	3.59	2.56	1.40	0.84	1.18	1.70	2.17	2.64	3.13	3.69	4.35	5.21	6.59	7.88
August	3.31	2.49	1.33	0.76	1.06	1.55	1.99	2.42	2.88	3.40	4.02	4.83	6.12	7.33
September	4.08	1.66	2.45	0.56	0.90	1.48	2.05	2.64	3.30	4.05	4.98	6.23	8.28	10.24
October	3.57	2.35	1.52	0.77	1.09	1.62	2.09	2.57	3.08	3.66	4.34	5.25	6.70	8.07
November	3.25	2.20	1.48	0.65	0.94	1.42	1.86	2.30	2.78	3.31	3.96	4.82	6.19	7.50
December	2.57	2.56	1.00	0.60	0.84	1.22	1.56	1.89	2.25	2.64	3.12	3.74	4.72	5.65

Arkansas North Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.43	1.65	2.07	0.47	0.75	1.24	1.71	2.21	2.76	3.40	4.18	5.24	6.96	8.62
February	3.55	2.63	1.35	0.86	1.19	1.71	2.17	2.63	3.11	3.65	4.30	5.14	6.48	7.73
March	4.00	2.59	1.55	0.95	1.32	1.91	2.43	2.95	3.50	4.11	4.85	5.81	7.33	8.76
April	4.50	5.23	0.86	1.82	2.23	2.82	3.30	3.75	4.21	4.71	5.29	6.02	7.13	8.14
May	5.37	4.18	1.28	1.89	2.40	3.13	3.75	4.34	4.95	5.61	6.38	7.37	8.89	10.29
June	4.27	2.31	1.85	0.90	1.29	1.92	2.49	3.06	3.67	4.37	5.20	6.29	8.04	9.70
July	3.45	4.56	0.76	1.28	1.61	2.07	2.45	2.82	3.20	3.60	4.08	4.68	5.60	6.45
August	3.14	2.93	1.07	0.84	1.13	1.59	1.98	2.37	2.78	3.24	3.77	4.47	5.56	6.57
September	3.08	1.99	1.54	0.54	0.81	1.26	1.68	2.11	2.57	3.10	3.74	4.58	5.94	7.20
October	3.17	2.41	1.32	0.70	0.99	1.45	1.87	2.29	2.74	3.24	3.84	4.64	5.90	7.09
November	3.70	2.28	1.63	0.77	1.10	1.65	2.14	2.64	3.17	3.78	4.50	5.45	6.98	8.43
December	3.24	2.67	1.21	0.79	1.10	1.57	1.99	2.40	2.84	3.33	3.91	4.68	5.88	7.01

TABLE 8 - Precipitation Probabilities for Climatic Divisions

Arkansas Northeast Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.88	2.14	2.28	0.94	1.38	2.10	2.76	3.43	4.15	4.96	5.94	7.25	9.34	11.32
February	4.22	2.98	1.42	1.14	1.54	2.15	2.68	3.21	3.75	4.36	5.08	6.00	7.45	8.78
March	4.84	4.09	1.18	1.68	2.14	2.80	3.36	3.90	4.45	5.05	5.75	6.65	8.04	9.32
April	4.46	4.91	0.91	1.74	2.15	2.74	3.23	3.69	4.16	4.67	5.25	6.00	7.13	8.15
May	4.71	4.01	1.17	1.61	2.06	2.71	3.26	3.78	4.32	4.91	5.60	6.49	7.86	9.12
June	3.75	2.60	1.44	0.89	1.24	1.79	2.28	2.77	3.28	3.86	4.55	5.44	6.87	8.20
July	3.73	4.94	0.75	1.46	1.80	2.29	2.70	3.08	3.47	3.89	4.38	5.00	5.94	6.79
August	3.23	3.31	0.98	0.96	1.27	1.73	2.12	2.51	2.91	3.36	3.88	4.56	5.62	6.60
September	2.96	2.92	1.01	0.79	1.07	1.49	1.87	2.24	2.62	3.05	3.56	4.22	5.25	6.20
October	3.20	2.77	1.15	0.81	1.11	1.58	1.99	2.39	2.82	3.30	3.86	4.60	5.76	6.84
November	4.15	2.39	1.73	0.91	1.29	1.90	2.45	3.00	3.59	4.25	5.04	6.08	7.74	9.30
December	4.08	4.66	0.88	1.54	1.92	2.47	2.92	3.35	3.79	4.27	4.82	5.53	6.61	7.60

Arkansas West Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.85	1.65	2.34	0.52	0.84	1.39	1.92	2.49	3.11	3.82	4.70	5.89	7.84	9.71
February	4.08	2.36	1.73	0.88	1.25	1.85	2.40	2.94	3.52	4.17	4.96	5.99	7.64	9.19
March	4.44	3.24	1.37	1.29	1.71	2.35	2.90	3.43	3.99	4.61	5.33	6.27	7.74	9.11
April	5.10	5.98	0.85	2.21	2.67	3.31	3.83	4.32	4.81	5.33	5.94	6.70	7.84	8.86
May	5.99	6.29	0.95	2.67	3.20	3.94	4.54	5.11	5.67	6.28	6.97	7.85	9.17	10.37
June	4.57	2.28	2.00	0.95	1.37	2.04	2.65	3.26	3.92	4.66	5.56	6.73	8.62	10.40
July	3.82	3.64	1.05	1.22	1.58	2.12	2.57	3.02	3.47	3.97	4.56	5.32	6.49	7.58
August	3.47	3.20	1.08	1.00	1.33	1.82	2.25	2.67	3.11	3.60	4.17	4.91	6.07	7.14
September	3.63	2.31	1.57	0.76	1.09	1.63	2.11	2.60	3.12	3.70	4.41	5.34	6.82	8.23
October	3.55	2.52	1.41	0.82	1.15	1.67	2.14	2.60	3.09	3.64	4.30	5.17	6.54	7.83
November	3.83	2.51	1.52	0.88	1.24	1.80	2.30	2.80	3.34	3.93	4.64	5.58	7.06	8.46
December	3.68	3.18	1.16	1.06	1.41	1.93	2.39	2.84	3.31	3.82	4.43	5.22	6.46	7.61

TABLE 9 - Precipitation Probabilities for Climatic Divisions

Arkansas East Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.61	2.53	2.22	1.30	1.83	2.65	3.38	4.12	4.89	5.76	6.80	8.17	10.34	12.37
February	4.67	3.11	1.50	1.31	1.76	2.43	3.01	3.58	4.18	4.84	5.62	6.63	8.22	9.71
March	5.20	5.96	0.87	2.26	2.72	3.37	3.91	4.40	4.91	5.45	6.06	6.84	8.01	9.06
April	4.89	5.04	0.97	1.93	2.39	3.03	3.56	4.06	4.57	5.12	5.76	6.56	7.80	8.93
May	4.64	3.85	1.20	1.54	1.98	2.62	3.17	3.70	4.24	4.83	5.52	6.41	7.78	9.03
June	3.56	3.03	1.17	0.98	1.32	1.83	2.28	2.72	3.18	3.68	4.29	5.07	6.30	7.45
July	3.91	3.25	1.20	1.14	1.51	2.07	2.56	3.03	3.52	4.06	4.70	5.53	6.82	8.02
August	2.79	2.56	1.09	0.65	0.92	1.32	1.69	2.05	2.44	2.87	3.38	4.06	5.13	6.14
September	3.05	3.44	0.88	0.93	1.22	1.65	2.02	2.38	2.76	3.17	3.65	4.27	5.25	6.15
October	3.08	2.24	1.38	0.63	0.91	1.36	1.77	2.19	2.64	3.14	3.75	4.55	5.84	7.06
November	4.33	2.89	1.50	1.14	1.55	2.18	2.73	3.27	3.84	4.47	5.22	6.19	7.71	9.12
December	4.62	3.93	1.17	1.56	2.00	2.63	3.18	3.69	4.23	4.81	5.49	6.36	7.70	8.92

Arkansas Southwest Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.60	2.11	2.17	0.87	1.29	1.96	2.58	3.21	3.89	4.67	5.60	6.84	8.82	10.71
February	4.20	3.12	1.35	1.19	1.58	2.19	2.71	3.23	3.76	4.36	5.06	5.96	7.39	8.72
March	4.70	4.57	1.03	1.75	2.19	2.82	3.35	3.85	4.36	4.91	5.55	6.37	7.63	8.78
April	5.50	4.38	1.26	2.00	2.51	3.26	3.88	4.48	5.09	5.75	6.52	7.50	9.02	10.41
May	5.65	4.42	1.28	2.06	2.59	3.36	4.00	4.61	5.23	5.91	6.69	7.70	9.25	10.66
June	3.91	1.93	2.02	0.66	1.00	1.57	2.11	2.66	3.25	3.93	4.75	5.85	7.61	9.27
July	3.95	3.81	1.04	1.30	1.68	2.23	2.70	3.15	3.61	4.12	4.71	5.47	6.65	7.73
August	3.06	2.09	1.47	0.57	0.85	1.29	1.71	2.13	2.59	3.10	3.73	4.56	5.89	7.16
September	3.49	2.35	1.48	0.75	1.07	1.58	2.05	2.51	3.01	3.57	4.24	5.13	6.54	7.88
October	3.36	2.09	1.61	0.63	0.93	1.42	1.88	2.34	2.84	3.41	4.09	5.00	6.46	7.85
November	4.27	2.21	1.93	0.85	1.24	1.87	2.44	3.02	3.64	4.35	5.19	6.31	8.11	9.81
December	4.36	2.90	1.50	1.15	1.56	2.19	2.75	3.29	3.86	4.50	5.25	6.22	7.75	9.16

TABLE 10 - Precipitation Probabilities for Climatic Divisions

Arkansas South Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.25	3.15	1.67	1.49	1.99	2.74	3.40	4.04	4.71	5.44	6.31	7.45	9.22	10.87
February	4.62	3.72	1.24	1.50	1.94	2.59	3.14	3.67	4.22	4.82	5.52	6.42	7.83	9.12
March	5.12	7.98	0.64	2.54	2.97	3.56	4.03	4.46	4.90	5.36	5.88	6.53	7.50	8.35
April	5.42	4.52	1.20	2.01	2.52	3.24	3.85	4.43	5.02	5.67	6.41	7.37	8.83	10.17
May	4.87	5.35	0.91	2.00	2.44	3.07	3.59	4.08	4.57	5.10	5.72	6.50	7.69	8.77
June	3.55	2.42	1.46	0.79	1.12	1.64	2.11	2.58	3.08	3.64	4.31	5.19	6.60	7.93
July	4.12	3.12	1.32	1.16	1.55	2.14	2.66	3.16	3.69	4.27	4.95	5.84	7.24	8.54
August	2.86	2.27	1.26	0.59	0.85	1.27	1.65	2.04	2.45	2.92	3.48	4.22	5.40	6.52
September	2.99	2.71	1.11	0.74	1.02	1.46	1.85	2.23	2.63	3.08	3.62	4.32	5.42	6.45
October	3.09	1.48	2.09	0.35	0.59	1.02	1.46	1.92	2.43	3.03	3.78	4.79	6.47	8.09
November	4.77	2.69	1.78	1.18	1.62	2.32	2.94	3.55	4.19	4.91	5.77	6.89	8.66	10.32
December	4.97	3.76	1.32	1.62	2.09	2.79	3.38	3.95	4.53	5.18	5.93	6.89	8.39	9.76

Arkansas Southeast Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.73	3.19	1.79	1.65	2.19	3.01	3.73	4.42	5.15	5.95	6.89	8.12	10.03	11.82
February	4.82	4.70	1.02	1.83	2.28	2.92	3.45	3.96	4.48	5.04	5.69	6.52	7.78	8.94
March	5.51	8.73	0.63	2.84	3.29	3.91	4.40	4.85	5.30	5.77	6.31	6.98	7.98	8.87
April	5.06	4.56	1.11	1.89	2.36	3.04	3.61	4.14	4.70	5.29	5.99	6.87	8.23	9.47
May	4.55	3.66	1.24	1.46	1.89	2.53	3.07	3.60	4.14	4.74	5.44	6.34	7.73	9.02
June	3.34	1.96	1.71	0.58	0.87	1.36	1.81	2.28	2.79	3.36	4.06	4.99	6.48	7.88
July	4.40	3.13	1.41	1.25	1.66	2.30	2.85	3.38	3.95	4.57	5.30	6.25	7.74	9.13
August	2.83	2.90	0.98	0.75	1.01	1.42	1.78	2.14	2.51	2.92	3.41	4.04	5.03	5.95
September	3.06	2.44	1.25	0.68	0.97	1.42	1.82	2.22	2.65	3.14	3.71	4.47	5.68	6.82
October	2.83	1.58	1.78	0.36	0.59	0.99	1.38	1.80	2.26	2.79	3.45	4.34	5.81	7.22
November	4.42	2.95	1.50	1.19	1.60	2.24	2.80	3.35	3.92	4.56	5.31	6.29	7.82	9.22
December	5.21	3.51	1.48	1.61	2.11	2.84	3.48	4.09	4.72	5.42	6.23	7.29	8.93	10.45

FLORIDA
STATUTE MILES
90 TH MERIDIAN TIME ZONE
75 TH MERIDIAN TIME ZONE
NORTHWEST
NORTH
NORTH CENTRAL
SOUTH CENTRAL
EVERGLADES AND SW COAST
LOWER EAST COAST
KEYS
STATION LEGEND
Soil Temperature
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data.
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2 AND 45 1/2

TABLE 11 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Lakeland, Florida

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.17	1.49	1.46	0.25	0.42	0.72	1.03	1.35	1.71	2.13	2.66	3.37	4.54	5.68
February	2.68	1.41	1.91	0.28	0.48	0.85	1.22	1.63	2.08	2.61	3.27	4.17	5.67	7.13
March	3.95	2.67	1.48	0.97	1.34	1.91	2.42	2.93	3.46	4.06	4.77	5.70	7.17	8.55
April	3.09	1.05	2.94	0.18	0.36	0.73	1.15	1.63	2.18	2.86	3.73	4.95	7.03	9.10
May	3.40	2.28	1.49	0.71	1.02	1.52	1.97	2.43	2.92	3.47	4.13	5.01	6.41	7.74
June	7.05	5.83	1.21	3.02	3.66	4.55	5.27	5.96	6.64	7.38	8.23	9.30	10.92	12.38
July	7.82	6.89	1.13	3.64	4.33	5.27	6.03	6.73	7.44	8.20	9.06	10.14	11.76	13.21
August	7.30	7.81	0.93	3.60	4.22	5.06	5.74	6.36	6.99	7.65	8.41	9.35	10.76	12.02
September	6.22	4.16	1.49	2.18	2.77	3.62	4.34	5.02	5.73	6.49	7.39	8.53	10.30	11.93
October	2.59	1.52	1.70	0.31	0.51	0.88	1.24	1.62	2.05	2.55	3.16	4.00	5.37	6.70
November	1.56	0.77	2.02	0.04	0.09	0.24	0.43	0.66	0.96	1.33	1.83	2.55	3.82	5.12
December	1.89	1.37	1.39	0.19	0.33	0.59	0.85	1.13	1.46	1.84	2.31	2.96	4.04	5.09

Division--Florida South Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.09	1.78	1.18	0.32	0.49	0.80	1.09	1.39	1.71	2.09	2.55	3.17	4.17	5.12
February	2.64	1.83	1.44	0.42	0.64	1.02	1.39	1.76	2.17	2.64	3.22	3.98	5.22	6.40
March	3.59	2.28	1.58	0.74	1.07	1.60	2.08	2.57	3.08	3.67	4.37	5.30	6.78	8.19
April	3.38	2.70	1.25	0.84	1.15	1.65	2.08	2.52	2.97	3.48	4.09	4.88	6.13	7.30
May	3.54	3.87	0.91	1.18	1.51	2.01	2.42	2.82	3.23	3.68	4.21	4.88	5.92	6.87
June	7.27	6.05	1.20	3.18	3.83	4.74	5.48	6.18	6.88	7.63	8.49	9.57	11.22	12.72
July	8.14	15.42	0.53	5.06	5.62	6.37	6.94	7.46	7.97	8.50	9.09	9.82	10.89	11.83
August	7.63	11.72	0.65	4.37	4.95	5.72	6.32	6.87	7.41	7.98	8.62	9.41	10.58	11.60
September	7.79	9.41	0.83	4.13	4.76	5.61	6.29	6.90	7.51	8.16	8.90	9.81	11.17	12.38
October	4.14	3.16	1.31	1.18	1.57	2.17	2.68	3.19	3.71	4.29	4.98	5.87	7.26	8.56
November	1.77	1.69	1.05	0.25	0.39	0.65	0.89	1.15	1.43	1.76	2.16	2.69	3.57	4.41
December	1.86	1.89	0.99	0.31	0.47	0.74	0.99	1.25	1.54	1.87	2.26	2.79	3.65	4.45

TABLE 12 - Precipitation Probabilities for Climatic Divisions

Florida Northwest Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.79	3.32	1.14	1.13	1.49	2.03	2.49	2.95	3.42	3.94	4.55	5.34	6.58	7.73
February	4.12	3.84	1.07	1.37	1.76	2.33	2.81	3.28	3.76	4.29	4.90	5.69	6.91	8.02
March	5.54	3.68	1.51	1.78	2.31	3.09	3.75	4.39	5.05	5.77	6.62	7.71	9.41	10.97
April	4.92	3.40	1.45	1.49	1.96	2.65	3.26	3.84	4.45	5.11	5.90	6.91	8.50	9.96
May	4.16	4.64	0.90	1.57	1.96	2.51	2.98	3.42	3.87	4.35	4.92	5.64	6.74	7.75
June	5.31	4.53	1.17	1.97	2.47	3.18	3.78	4.35	4.93	5.56	6.29	7.22	8.65	9.97
July	7.96	10.92	0.73	4.45	5.07	5.89	6.54	7.13	7.71	8.33	9.02	9.87	11.13	12.23
August	7.09	6.64	1.07	3.25	3.87	4.74	5.43	6.09	6.74	7.44	8.24	9.24	10.76	12.13
September	6.15	3.65	1.68	1.97	2.55	3.41	4.15	4.86	5.60	6.40	7.35	8.56	10.45	12.19
October	2.60	1.46	1.78	0.29	0.49	0.85	1.21	1.60	2.03	2.54	3.17	4.03	5.45	6.82
November	2.92	1.51	1.93	0.35	0.58	0.99	1.39	1.82	2.31	2.87	3.56	4.51	6.06	7.57
December	3.85	3.00	1.29	1.05	1.41	1.97	2.45	2.93	3.43	3.98	4.63	5.47	6.79	7.99

Florida North Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.53	2.38	1.06	0.55	0.78	1.15	1.49	1.82	2.18	2.59	3.07	3.70	4.72	5.67
February	3.24	3.54	0.91	1.01	1.32	1.77	2.17	2.54	2.94	3.37	3.87	4.52	5.54	6.48
March	4.02	2.06	1.95	0.74	1.10	1.69	2.23	2.79	3.39	4.08	4.90	6.00	7.77	9.45
April	3.44	3.16	1.09	0.98	1.31	1.80	2.23	2.65	3.08	3.57	4.14	4.88	6.03	7.11
May	3.35	3.78	0.89	1.10	1.42	1.88	2.28	2.66	3.06	3.49	4.00	4.64	5.65	6.57
June	6.13	6.96	0.88	2.87	3.40	4.14	4.73	5.28	5.83	6.42	7.09	7.93	9.19	10.31
July	7.62	15.10	0.50	4.71	5.24	5.94	6.49	6.98	7.46	7.96	8.52	9.21	10.22	11.11
August	6.90	11.24	0.61	3.90	4.43	5.14	5.69	6.20	6.70	7.22	7.81	8.55	9.63	10.60
September	6.55	5.59	1.17	2.75	3.34	4.18	4.87	5.51	6.16	6.86	7.67	8.69	10.25	11.66
October	4.40	1.93	2.27	0.75	1.13	1.77	2.37	2.99	3.66	4.42	5.35	6.58	8.56	10.42
November	1.95	1.85	1.05	0.31	0.48	0.76	1.03	1.30	1.61	1.95	2.37	2.93	3.84	4.70
December	2.52	1.50	1.68	0.29	0.49	0.84	1.19	1.57	1.98	2.47	3.07	3.89	5.24	6.55

TABLE 13 - Precipitation Probabilities for Climatic Divisions

Florida North Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.10	2.09	1.01	0.39	0.58	0.89	1.18	1.47	1.78	2.13	2.56	3.13	4.05	4.92
February	2.72	1.89	1.44	0.45	0.68	1.08	1.45	1.84	2.25	2.73	3.31	4.09	5.33	6.51
March	3.92	2.10	1.87	0.74	1.09	1.67	2.20	2.74	3.32	3.98	4.78	5.84	7.54	9.16
April	3.39	3.54	0.96	1.06	1.38	1.86	2.27	2.66	3.07	3.53	4.06	4.74	5.80	6.78
May	3.40	4.23	0.80	1.21	1.53	1.99	2.38	2.75	3.13	3.55	4.03	4.65	5.61	6.49
June	7.07	6.91	1.02	3.30	3.91	4.76	5.45	6.09	6.73	7.41	8.19	9.16	10.63	11.93
July	8.16	12.43	0.66	4.76	5.37	6.17	6.81	7.38	7.94	8.53	9.19	10.01	11.23	12.30
August	7.12	11.01	0.65	3.99	4.54	5.28	5.86	6.38	6.90	7.45	8.07	8.83	9.97	10.98
September	7.21	6.75	1.07	3.33	3.96	4.83	5.54	6.20	6.86	7.56	8.37	9.38	10.91	12.28
October	4.27	2.96	1.44	1.15	1.56	2.17	2.71	3.24	3.80	4.41	5.14	6.08	7.55	8.90
November	1.85	1.49	1.24	0.22	0.36	0.62	0.88	1.15	1.46	1.82	2.26	2.87	3.87	4.83
December	2.03	1.84	1.10	0.32	0.50	0.79	1.07	1.36	1.68	2.04	2.48	3.07	4.01	4.92

Florida Everglades and SW Coast Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.63	1.45	1.13	0.18	0.31	0.53	0.76	1.01	1.28	1.60	2.00	2.54	3.43	4.30
February	1.91	1.68	1.14	0.27	0.43	0.70	0.97	1.24	1.55	1.90	2.34	2.92	3.87	4.79
March	2.65	1.48	1.80	0.30	0.51	0.88	1.25	1.64	2.08	2.60	3.24	4.11	5.55	6.94
April	2.98	2.86	1.04	0.78	1.06	1.49	1.87	2.24	2.64	3.07	3.59	4.26	5.32	6.30
May	4.32	4.63	0.93	1.63	2.03	2.61	3.09	3.54	4.01	4.52	5.10	5.85	7.00	8.05
June	8.29	6.73	1.23	3.82	4.55	5.56	6.37	7.12	7.88	8.70	9.62	10.79	12.55	14.12
July	8.18	17.12	0.48	5.22	5.77	6.48	7.04	7.53	8.02	8.52	9.09	9.78	10.79	11.68
August	7.47	18.22	0.41	4.84	5.33	5.97	6.46	6.90	7.33	7.78	8.28	8.89	9.78	10.56
September	8.47	9.35	0.91	4.48	5.17	6.10	6.83	7.50	8.17	8.88	9.68	10.67	12.16	13.48
October	4.39	2.69	1.63	1.08	1.49	2.14	2.70	3.27	3.86	4.52	5.31	6.34	7.97	9.49
November	1.53	1.96	0.78	0.26	0.40	0.62	0.83	1.04	1.27	1.54	1.86	2.28	2.96	3.60
December	1.42	1.50	0.94	0.17	0.28	0.48	0.67	0.88	1.12	1.39	1.73	2.19	2.95	3.69

TABLE 14 - Precipitation Probabilities for Climatic Divisions

Florida Lower East Coast Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.16	1.93	1.12	0.37	0.55	0.87	1.17	1.47	1.80	2.18	2.63	3.24	4.22	5.14
February	2.02	2.11	0.96	0.38	0.56	0.86	1.14	1.41	1.71	2.05	2.46	3.01	3.89	4.72
March	2.82	2.18	1.30	0.56	0.81	1.22	1.60	1.99	2.40	2.87	3.43	4.18	5.38	6.51
April	3.90	2.27	1.72	0.80	1.16	1.73	2.26	2.78	3.35	3.98	4.75	5.76	7.37	8.90
May	5.49	2.91	1.89	1.46	1.97	2.77	3.47	4.15	4.87	5.67	6.61	7.84	9.76	11.53
June	7.43	3.15	2.36	2.11	2.82	3.89	4.81	5.72	6.66	7.71	8.94	10.54	13.05	15.38
July	6.65	5.60	1.19	2.79	3.40	4.24	4.94	5.59	6.26	6.97	7.79	8.82	10.40	11.83
August	6.82	6.21	1.10	3.02	3.63	4.48	5.17	5.81	6.46	7.16	7.95	8.96	10.48	11.86
September	9.47	5.89	1.61	4.08	4.93	6.12	7.10	8.01	8.93	9.91	11.04	12.47	14.63	16.56
October	8.15	5.72	1.43	3.46	4.20	5.23	6.08	6.88	7.68	8.54	9.54	10.79	12.70	14.42
November	2.84	2.18	1.30	0.56	0.82	1.23	1.62	2.01	2.42	2.89	3.46	4.21	5.42	6.56
December	2.17	1.96	1.11	0.37	0.56	0.88	1.18	1.48	1.81	2.19	2.64	3.24	4.21	5.12

Florida Keys Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.71	1.51	1.13	0.20	0.34	0.58	0.82	1.07	1.35	1.68	2.09	2.64	3.56	4.44
February	1.88	0.95	1.98	0.08	0.18	0.39	0.64	0.93	1.27	1.70	2.25	3.03	4.38	5.73
March	1.92	1.50	1.28	0.23	0.37	0.64	0.91	1.20	1.52	1.89	2.35	2.97	4.00	5.00
April	2.29	1.58	1.45	0.29	0.47	0.80	1.11	1.45	1.82	2.26	2.79	3.51	4.70	5.85
May	3.10	1.76	1.76	0.47	0.73	1.17	1.60	2.05	2.53	3.09	3.78	4.70	6.19	7.61
June	4.33	2.49	1.74	0.99	1.39	2.03	2.60	3.17	3.77	4.45	5.26	6.32	8.01	9.60
July	4.54	4.35	1.04	1.64	2.07	2.68	3.20	3.69	4.20	4.74	5.38	6.20	7.45	8.60
August	4.68	5.43	0.86	1.93	2.36	2.96	3.46	3.92	4.40	4.90	5.49	6.23	7.36	8.39
September	7.05	5.06	1.39	2.80	3.45	4.37	5.13	5.85	6.59	7.38	8.30	9.46	11.24	12.86
October	6.73	3.32	2.03	2.00	2.64	3.60	4.43	5.23	6.07	6.99	8.08	9.49	11.69	13.73
November	2.43	1.52	1.60	0.29	0.48	0.82	1.16	1.52	1.92	2.38	2.96	3.75	5.04	6.29
December	1.88	1.63	1.15	0.25	0.40	0.67	0.93	1.21	1.51	1.86	2.29	2.88	3.83	4.75

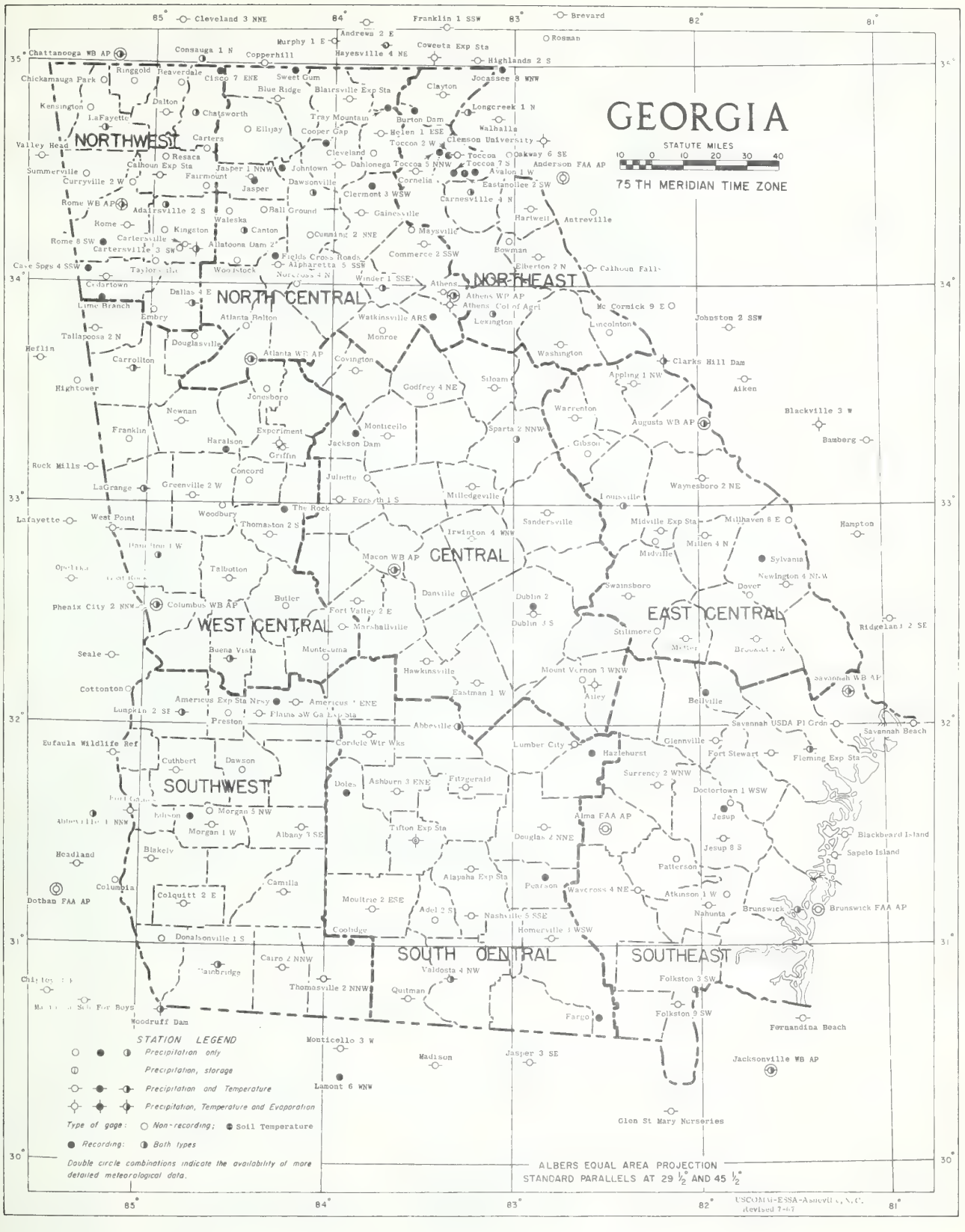

GEORGIA
STATUTE MILES
10 0 10 20 30 40
75 TH MERIDIAN TIME ZONE
NORTHWEST
NORTH CENTRAL
NORTHEAST
WEST CENTRAL
CENTRAL
EAST CENTRAL
SOUTHWEST
SOUTH CENTRAL
SOUTHEAST
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage: Non-recording; Soil Temperature
Recording: Both types
Double circle combinations indicate the availability of more detailed meteorological data.
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2° AND 45 1/2°
USCOMM-ESSA-Asheville, N.C.
Revised 7-67

TABLE 15 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Atlanta, Georgia

Probabilities (based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.48	4.19	1.07	1.58	2.00	2.62	3.13	3.62	4.13	4.68	5.32	6.14	7.41	8.58
February	4.72	4.25	1.11	1.68	2.13	2.77	3.31	3.83	4.36	4.93	5.61	6.47	7.79	9.01
March	5.52	7.86	0.70	2.72	3.19	3.83	4.34	4.81	5.28	5.78	6.35	7.06	8.12	9.07
April	4.59	4.13	1.11	1.60	2.04	2.67	3.20	3.70	4.22	4.79	5.46	6.30	7.61	8.82
May	3.21	2.49	1.29	0.73	1.03	1.50	1.93	2.35	2.79	3.30	3.90	4.68	5.94	7.12
June	4.04	3.16	1.28	1.15	1.53	2.11	2.62	3.11	3.62	4.19	4.86	5.72	7.09	8.35
July	4.83	3.97	1.22	1.64	2.10	2.76	3.33	3.87	4.42	5.03	5.74	6.64	8.03	9.29
August	3.61	2.68	1.34	0.89	1.23	1.75	2.22	2.68	3.17	3.71	4.36	5.21	6.55	7.80
September	3.15	3.00	1.05	0.86	1.16	1.61	2.01	2.40	2.80	3.25	3.79	4.48	5.55	6.54
October	2.51	0.85	2.97	0.08	0.19	0.45	0.77	1.15	1.62	2.21	2.98	4.09	6.03	7.99
November	3.16	1.79	1.76	0.48	0.75	1.21	1.64	2.10	2.59	3.16	3.85	4.78	6.28	7.71
December	4.52	3.05	1.48	1.25	1.68	2.33	2.90	3.46	4.04	4.69	5.45	6.44	8.00	9.45

Division--Georgia North Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.08	4.74	1.07	1.94	2.41	3.09	3.65	4.18	4.73	5.31	6.00	6.86	8.19	9.40
February	5.01	4.48	1.12	1.85	2.32	2.99	3.56	4.09	4.64	5.24	5.94	6.82	8.19	9.43
March	5.89	8.63	0.68	3.02	3.51	4.17	4.70	5.18	5.66	6.17	6.75	7.47	8.55	9.51
April	4.96	4.54	1.09	1.84	2.31	2.97	3.53	4.06	4.60	5.19	5.87	6.74	8.08	9.30
May	3.57	4.24	0.84	1.27	1.61	2.09	2.50	2.89	3.29	3.73	4.24	4.89	5.89	6.81
June	4.09	5.83	0.70	1.75	2.12	2.64	3.06	3.45	3.85	4.28	4.77	5.39	6.33	7.18
July	5.18	5.94	0.87	2.24	2.71	3.36	3.89	4.38	4.88	5.42	6.04	6.81	7.98	9.02
August	3.94	4.58	0.86	1.47	1.84	2.37	2.81	3.23	3.66	4.12	4.66	5.35	6.40	7.37
September	3.30	3.31	1.00	0.98	1.29	1.76	2.17	2.56	2.97	3.42	3.96	4.65	5.73	6.73
October	3.00	1.07	2.79	0.18	0.36	0.73	1.14	1.60	2.14	2.79	3.63	4.80	6.79	8.77
November	3.35	2.46	1.36	0.76	1.07	1.56	2.00	2.44	2.91	3.44	4.07	4.89	6.21	7.45
December	4.96	3.24	1.53	1.44	1.92	2.62	3.24	3.84	4.46	5.15	5.96	7.01	8.65	10.18

TABLE 16 - Precipitation Probabilities for Climatic Divisions

Georgia Northwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.24	4.86	1.08	2.03	2.51	3.21	3.78	4.32	4.88	5.48	6.17	7.05	8.39	9.60
February	4.49	2.07	2.17	0.83	1.23	1.89	2.50	3.12	3.79	4.55	5.48	6.70	8.67	10.55
March	6.04	8.78	0.69	3.12	3.62	4.29	4.83	5.32	5.81	6.33	6.92	7.65	8.75	9.72
April	4.82	5.37	0.90	1.98	2.42	3.04	3.55	4.04	4.52	5.05	5.66	6.43	7.60	8.67
May	3.60	4.63	0.78	1.35	1.69	2.17	2.57	2.95	3.34	3.76	4.25	4.88	5.83	6.71
June	3.99	6.39	0.62	1.79	2.15	2.64	3.04	3.41	3.78	4.18	4.64	5.22	6.10	6.89
July	4.74	4.65	1.02	1.79	2.23	2.86	3.39	3.89	4.41	4.96	5.60	6.42	7.68	8.83
August	4.04	5.04	0.80	1.60	1.97	2.50	2.94	3.36	3.78	4.24	4.76	5.43	6.45	7.39
September	3.27	2.27	1.44	0.68	0.98	1.45	1.89	2.33	2.80	3.34	3.98	4.82	6.17	7.45
October	2.81	1.62	1.73	0.37	0.60	1.00	1.40	1.81	2.26	2.79	3.44	4.31	5.74	7.13
November	3.51	2.45	1.43	0.79	1.11	1.63	2.09	2.55	3.04	3.60	4.26	5.13	6.51	7.82
December	5.03	2.95	1.70	1.35	1.82	2.55	3.19	3.81	4.46	5.19	6.04	7.16	8.89	10.49

Georgia Northeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.24	4.64	1.13	1.97	2.46	3.17	3.75	4.31	4.87	5.49	6.20	7.11	8.50	9.77
February	4.70	1.23	3.82	0.38	0.70	1.32	1.97	2.69	3.51	4.48	5.72	7.42	10.28	13.09
March	6.03	8.02	0.75	3.01	3.51	4.21	4.76	5.27	5.78	6.33	6.94	7.72	8.87	9.91
April	4.96	4.61	1.07	1.86	2.32	2.99	3.54	4.07	4.60	5.19	5.86	6.72	8.04	9.25
May	3.59	4.44	0.81	1.31	1.65	2.13	2.54	2.93	3.32	3.75	4.25	4.89	5.87	6.77
June	4.35	6.48	0.67	1.97	2.36	2.89	3.32	3.73	4.13	4.57	5.06	5.69	6.64	7.49
July	5.38	5.87	0.92	2.31	2.80	3.47	4.03	4.55	5.07	5.63	6.28	7.09	8.32	9.42
August	4.68	4.52	1.03	1.73	2.17	2.80	3.33	3.82	4.34	4.89	5.53	6.36	7.62	8.77
September	3.70	2.68	1.38	0.91	1.25	1.79	2.27	2.75	3.25	3.81	4.47	5.34	6.72	8.00
October	3.25	1.40	2.32	0.34	0.58	1.03	1.48	1.97	2.52	3.16	3.97	5.06	6.88	8.66
November	3.62	2.66	1.36	0.88	1.22	1.75	2.22	2.68	3.18	3.72	4.38	5.23	6.58	7.85
December	5.11	3.13	1.63	1.45	1.93	2.66	3.30	3.93	4.58	5.30	6.14	7.25	8.98	10.59

TABLE 17 - Precipitation Probabilities for Climatic Divisions

Georgia West Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.58	4.36	1.05	1.66	2.09	2.71	3.23	3.73	4.23	4.79	5.43	6.25	7.51	8.67
February	4.65	4.95	0.94	1.82	2.25	2.86	3.37	3.85	4.34	4.87	5.47	6.25	7.42	8.48
March	5.99	8.39	0.71	3.04	3.54	4.22	4.76	5.26	5.76	6.28	6.88	7.63	8.75	9.75
April	4.90	4.59	1.07	1.83	2.29	2.95	3.50	4.02	4.55	5.12	5.79	6.65	7.96	9.15
May	3.34	3.20	1.04	0.96	1.28	1.76	2.17	2.57	3.00	3.46	4.01	4.72	5.83	6.87
June	4.11	9.04	0.45	2.15	2.48	2.94	3.30	3.63	3.96	4.31	4.70	5.19	5.93	6.58
July	5.60	10.14	0.55	3.05	3.50	4.09	4.56	4.99	5.41	5.86	6.37	7.00	7.93	8.77
August	4.16	8.30	0.50	2.10	2.45	2.92	3.30	3.64	3.99	4.36	4.78	5.30	6.08	6.78
September	3.34	3.67	0.91	1.07	1.39	1.86	2.26	2.64	3.04	3.48	3.99	4.65	5.68	6.62
October	2.29	1.04	2.21	0.13	0.26	0.53	0.84	1.20	1.61	2.12	2.77	3.68	5.23	6.78
November	2.92	2.12	1.38	0.56	0.82	1.25	1.64	2.05	2.48	2.97	3.56	4.34	5.60	6.80
December	4.63	3.19	1.45	1.33	1.77	2.44	3.01	3.57	4.16	4.80	5.57	6.56	8.10	9.55

Georgia Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.15	3.58	1.16	1.31	1.70	2.29	2.79	3.27	3.77	4.32	4.97	5.80	7.09	8.28
February	4.51	3.87	1.16	1.50	1.93	2.56	3.09	3.60	4.12	4.70	5.37	6.23	7.55	8.76
March	5.18	5.91	0.88	2.24	2.70	3.35	3.88	4.38	4.88	5.42	6.04	6.82	8.00	9.05
April	4.30	4.10	1.05	1.49	1.90	2.49	2.99	3.47	3.96	4.49	5.11	5.91	7.14	8.28
May	3.49	3.31	1.06	1.03	1.37	1.86	2.29	2.71	3.15	3.63	4.19	4.93	6.07	7.13
June	3.88	8.14	0.48	1.94	2.27	2.71	3.07	3.40	3.72	4.07	4.46	4.95	5.69	6.35
July	5.33	13.84	0.38	3.21	3.59	4.10	4.49	4.85	5.20	5.56	5.97	6.47	7.21	7.86
August	4.10	7.74	0.53	2.01	2.36	2.84	3.22	3.57	3.92	4.30	4.73	5.26	6.06	6.77
September	3.36	3.90	0.86	1.13	1.45	1.91	2.31	2.69	3.08	3.50	4.00	4.64	5.62	6.52
October	2.34	1.27	1.84	0.20	0.36	0.67	1.00	1.35	1.76	2.24	2.85	3.68	5.08	6.45
November	2.48	1.86	1.34	0.40	0.61	0.97	1.32	1.67	2.05	2.49	3.03	3.74	4.89	5.99
December	4.11	3.22	1.28	1.19	1.58	2.17	2.68	3.18	3.70	4.27	4.94	5.82	7.19	8.46

TABLE 18 - Precipitation Probabilities for Climatic Divisions

Georgia East Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.38	3.68	0.92	1.09	1.41	1.88	2.28	2.67	3.08	3.52	4.03	4.70	5.73	6.68
February	4.06	3.77	1.08	1.33	1.71	2.28	2.76	3.22	3.70	4.23	4.84	5.63	6.85	7.96
March	4.48	4.12	1.09	1.56	1.98	2.60	3.11	3.61	4.12	4.67	5.32	6.15	7.43	8.61
April	3.82	4.08	0.94	1.32	1.69	2.21	2.66	3.08	3.52	3.99	4.55	5.26	6.36	7.38
May	3.33	3.27	1.02	0.98	1.29	1.77	2.18	2.58	3.00	3.46	4.00	4.70	5.80	6.82
June	3.94	5.98	0.66	1.71	2.07	2.56	2.96	3.34	3.72	4.13	4.59	5.18	6.07	6.86
July	4.98	9.11	0.55	2.61	3.02	3.56	4.00	4.40	4.80	5.22	5.70	6.29	7.18	7.97
August	4.59	5.21	0.88	1.85	2.27	2.87	3.36	3.82	4.30	4.80	5.39	6.13	7.27	8.31
September	3.82	3.92	0.97	1.28	1.65	2.17	2.62	3.05	3.49	3.97	4.54	5.26	6.37	7.38
October	2.51	1.03	2.44	0.14	0.28	0.58	0.92	1.31	1.76	2.32	3.03	4.04	5.75	7.46
November	2.21	1.78	1.24	0.34	0.52	0.84	1.15	1.46	1.81	2.21	2.69	3.34	4.40	5.41
December	3.46	3.09	1.12	0.97	1.30	1.80	2.23	2.65	3.10	3.59	4.17	4.92	6.11	7.21

Georgia Southwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.03	3.58	1.12	1.27	1.65	2.22	2.71	3.18	3.66	4.20	4.82	5.63	6.88	8.04
February	4.49	3.95	1.14	1.52	1.94	2.57	3.09	3.60	4.11	4.68	5.34	6.19	7.49	8.66
March	5.31	4.17	1.27	1.87	2.37	3.10	3.71	4.29	4.89	5.55	6.31	7.29	8.80	10.19
April	4.77	4.29	1.11	1.71	2.16	2.81	3.35	3.87	4.41	4.99	5.66	6.52	7.86	9.08
May	3.58	3.63	0.99	1.14	1.48	1.98	2.41	2.83	3.25	3.72	4.28	4.99	6.09	7.11
June	4.70	6.80	0.69	2.18	2.59	3.16	3.62	4.04	4.47	4.93	5.45	6.11	7.09	7.98
July	6.27	18.39	0.34	4.07	4.49	5.02	5.43	5.80	6.16	6.53	6.95	7.46	8.20	8.85
August	5.20	10.49	0.50	2.87	3.28	3.83	4.26	4.65	5.04	5.45	5.91	6.49	7.34	8.10
September	4.22	3.85	1.10	1.40	1.80	2.39	2.88	3.36	3.85	4.39	5.02	5.83	7.08	8.22
October	2.11	0.86	2.44	0.07	0.17	0.39	0.66	0.98	1.38	1.87	2.51	3.44	5.04	6.66
November	2.54	1.38	1.83	0.26	0.45	0.79	1.15	1.53	1.96	2.46	3.09	3.96	5.39	6.78
December	4.14	2.87	1.44	1.08	1.48	2.08	2.60	3.12	3.67	4.28	4.99	5.93	7.39	8.75

TABLE 19 - Precipitation Probabilities for Climatic Divisions

Georgia South Central Division

Probabilities (based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.44	3.73	0.92	1.12	1.44	1.92	2.33	2.73	3.14	3.58	4.10	4.78	5.82	6.77
February	4.07	3.25	1.25	1.19	1.57	2.15	2.66	3.15	3.66	4.22	4.88	5.74	7.09	8.34
March	4.71	3.40	1.38	1.43	1.87	2.54	3.12	3.68	4.26	4.89	5.65	6.61	8.13	9.53
April	4.18	3.75	1.12	1.36	1.76	2.34	2.84	3.32	3.82	4.36	4.99	5.81	7.07	8.23
May	3.40	4.12	0.83	1.19	1.51	1.97	2.37	2.74	3.13	3.55	4.04	4.67	5.65	6.54
June	4.71	7.02	0.67	2.21	2.62	3.19	3.64	4.07	4.49	4.94	5.46	6.11	7.08	7.96
July	6.20	10.16	0.61	3.38	3.87	4.53	5.05	5.53	6.00	6.49	7.05	7.75	8.79	9.71
August	5.41	10.57	0.51	2.99	3.41	3.98	4.43	4.83	5.24	5.66	6.14	6.73	7.61	8.40
September	4.13	4.10	1.01	1.44	1.83	2.40	2.87	3.33	3.80	4.32	4.92	5.68	6.87	7.96
October	2.27	0.86	2.64	0.08	0.18	0.41	0.70	1.05	1.47	2.00	2.70	3.69	5.42	7.17
November	1.98	1.54	1.29	0.24	0.40	0.68	0.95	1.25	1.57	1.95	2.42	3.06	4.10	5.11
December	3.38	2.51	1.35	0.78	1.09	1.58	2.03	2.47	2.94	3.47	4.10	4.92	6.24	7.47

Georgia Southeast Division

Probabilities (based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.71	2.72	1.00	0.68	0.93	1.33	1.68	2.02	2.39	2.79	3.28	3.91	4.91	5.84
February	3.36	3.02	1.11	0.92	1.24	1.73	2.15	2.57	3.00	3.48	4.05	4.79	5.96	7.04
March	3.95	2.41	1.64	0.87	1.24	1.82	2.34	2.86	3.42	4.05	4.80	5.79	7.37	8.85
April	3.26	3.84	0.85	1.08	1.39	1.84	2.23	2.60	2.98	3.40	3.88	4.51	5.47	6.36
May	3.28	3.29	1.00	0.97	1.28	1.75	2.15	2.54	2.95	3.40	3.94	4.62	5.70	6.70
June	5.36	6.20	0.87	2.38	2.85	3.52	4.06	4.57	5.08	5.63	6.25	7.04	8.24	9.33
July	6.93	9.65	0.72	3.71	4.27	5.02	5.61	6.16	6.69	7.26	7.91	8.70	9.90	10.95
August	6.25	9.37	0.67	3.31	3.82	4.50	5.04	5.54	6.03	6.55	7.14	7.87	8.97	9.94
September	6.24	3.78	1.65	2.05	2.64	3.51	4.25	4.96	5.70	6.50	7.45	8.65	10.52	12.24
October	3.09	1.20	2.58	0.24	0.44	0.84	1.27	1.74	2.28	2.93	3.75	4.89	6.80	8.68
November	1.79	2.27	0.79	0.37	0.53	0.80	1.03	1.28	1.53	1.82	2.17	2.63	3.37	4.07
December	2.76	2.09	1.32	0.52	0.77	1.17	1.54	1.92	2.33	2.80	3.36	4.11	5.30	6.45

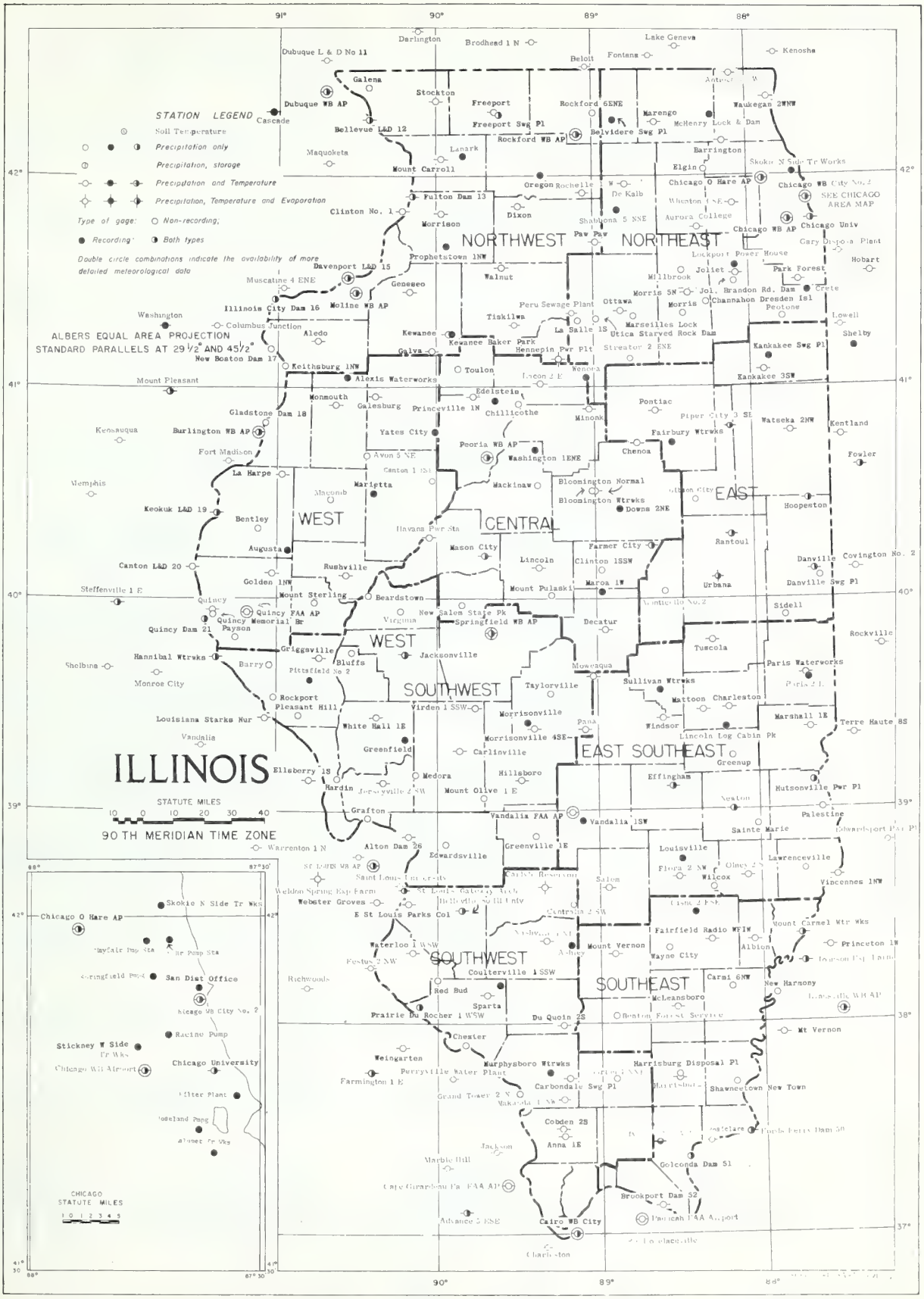

STATION LEGEND
Soil Temperature
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage: ○ Non-recording; ● Recording; ◑ Both types
Double circle combinations indicate the availability of more detailed meteorological data
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29½° AND 45½°
ILLINOIS
NORTHWEST
NORTHEAST
WEST CENTRAL
EAST
WEST
SOUTHWEST
EAST SOUTHEAST
SOUTHWEST
SOUTHEAST
STATUTE MILES
90 TH MERIDIAN TIME ZONE
CHICAGO STATUTE MILES
SEE CHICAGO AREA MAP
Dubuque L & D No 11
Galena
Dubuque WB AP
Cascade
Bellevue L&D 12
Maquoketa
Stockton
Freeport
Freeport Swg Pl
Darlington
Brodhead 1 N
Rockford 6ENE
Rockford WB AP
Beloit
Fontana
Lake Geneva
Kenosha
Marengo
McHenry Lock & Dam
Belvidere Swg Pl
Waukegan 2NW
Lanark
Mount Carroll
Barrington
Elgin
Skokie N Side Tr Works
Chicago O Hare AP
Chicago WB City No 2
Fulton Dam 13
Clinton No. 1
Morrison
Oregon
Rochelle 1 W
De Kalb
Dixon
Shabbona 5 SSE
Whiton 6 SE
Aurora College
Chicago WB AP
Chicago Univ
Gary Disposal Plant
Prophetstown 1NW
Davenport L&D 15
Muscatine 4 ENE
Genesseo
Walnut
Lockport Power House
Joliet
Millbrook
Park Forest
Hobart
Morris 5N
Joi. Brandon Rd. Dam
Crete
Channahon
Dresden Isl
Peotone
Illinois City Dam 16
Moline WB AP
Peru Sewage Plant
Ottawa
Morris
Lowell
Washington
Columbus Junction
Aledo
Tiskilwa
La Salle 1S
Marseilles Lock
Utica Starved Rock Dam
Shelby
Kewanee
Kewanee Baker Park
Hennepin Pwr Plt
Galva
Streator 2 ENE
Kankakee Swg Pl
New Boston Dam 17
Keithsburg 1NW
Toulon
Wenona
Lincoln 2 E
Kankakee 3SW
Mount Pleasant
Alexis Waterworks
Monmouth
Galesburg
Princeville 1N
Edelstein
Chillicothe
Minonk
Pontiac
Piper City 3 SE
Watseka 2NW
Kentland
Gladstone Dam 18
Burlington WB AP
Keosauqua
Yates City
Peoria WB AP
Washington 1ENE
Fairbury Wtrwks
Chenoa
Fowler
Fort Madison
Avon 5 NE
Canton 1 SW
La Harpe
Memphis
Maquon
Maritta
Mackinaw
Bloomington Normal
Bloomington Wtrwks
Gilman City
Hoopeston
Keokuk L&D 19
Bentley
Havana Pwr Sta
Downs 2NE
Rantoul
Augusta
Mason City
Farmer City
Danville
Covington No. 2
Canton L&D 20
Rushville
Lincoln
Clinton 1SSW
Golden 1NW
Maroa 1W
Urbana
Danville Swg Pl
Steffenville 1 E
Quincy
Mount Sterling
Beardstown
Mount Pulaski
Monticello No. 2
Sidell
Quincy FAA AP
Quincy Memorial Br
New Salem State Pk
Springfield WB AP
Decatur
Quincy Dam 21
Payson
Virginia
Tuscola
Rockville
Hannibal Wtrwks
Griggsville
Jacksonville
Barry
Bluffs
Pittsfield No 2
Shelbina
Monroe City
Mowequa
Paris Waterworks
Sullivan Wtrwks
Taylorville
Rockport
Pleasant Hill
Mattoon
Charleston
Louisiana Starks Nur
Virden 1 SSW
Morrisonville
Windsor
Marshall 1E
Terre Haute 8S
Vandalia
White Hall 1E
Pana
Lincoln Log Cabin Pk
Greenfield
Carlinville
Morrisonville 4SE
Greenup
Ellsberry 1S
Medora
Hillsboro
Effingham
Hardin
Jerseyville 2 SW
Mount Olive 1 E
Hutsonville Pwr Pl
Newton
Grafton
Vandalia FAA AP
Vandalia 1SW
Palestine
Sainte Marie
Warrenton 1 N
Alton Dam 26
Edwardsville
Greenville 1E
Louisville
Lawrenceville
Flora 2 NW
Olney 2 S
Wilcox
Saint Louis University
Earl's Reservoir
Salem
Vincennes 1NW
Webster Groves
E St Louis Parks Col
Centralia 2 SW
Mount Carmel Wtr Wks
Fairfield Radio WFIW
Waterloo 1 WSW
Festus 2 NW
Mount Vernon
Albion
Princeton 1W
Ashley
Wayne City
Coulterville 1 SSW
Carmi 6NW
New Harmony
Richwoods
Red Bud
Sparta
McLeansboro
Prairie Du Rocher 1 WSW
Du Quoin 2S
Chester
Mt Vernon
Weingarten
Murphysboro Wtrwks
Harrisburg Disposal Pl
Farmington 1 E
Perryville Water Plant
Carbondale Swg Pl
Shawneetown New Town
Grand Tower 2 N
Makanda 1 NW
Cobden 2S
Anna 1E
Golconda Dam 51
Marble Hill
Cape Girardeau Pa FAA AP
Brookport Dam 52
Advance 5 ESE
Cairo WB City
Paducah FAA Airport
Charleston
Skokie N Side Tr Wks
Chicago O Hare AP
Hayden Pump Sta
Calumet Pump Sta
Springfield Pump
San Dist Office
Chicago WB City No. 2
Racine Pump
Stickney W Side Tr Wks
Chicago WB Airport
Chicago University
Filter Plant
Jodeland Pump
Calumet Tr Wks
CHICAGO STATUTE MILES

TABLE 20 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Peoria, Illinois

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.92	2.07	0.93	0.36	0.53	0.81	1.07	1.33	1.62	1.95	2.34	2.86	3.70	4.50
February	1.60	2.87	0.56	0.42	0.57	0.80	1.01	1.21	1.42	1.65	1.93	2.29	2.86	3.39
March	2.91	4.12	0.70	1.01	1.29	1.69	2.02	2.35	2.68	3.04	3.46	3.99	4.83	5.59
April	4.01	4.05	0.99	1.38	1.76	2.32	2.78	3.23	3.69	4.19	4.78	5.53	6.69	7.75
May	4.04	3.23	1.25	1.17	1.56	2.13	2.63	3.12	3.63	4.19	4.85	5.71	7.05	8.29
June	3.75	2.93	1.28	1.00	1.36	1.90	2.37	2.84	3.33	3.87	4.52	5.35	6.66	7.86
July	3.58	2.65	1.35	0.87	1.20	1.73	2.19	2.65	3.14	3.68	4.33	5.18	6.52	7.78
August	2.94	3.61	0.81	0.93	1.21	1.62	1.98	2.32	2.67	3.06	3.51	4.10	5.01	5.84
September	3.38	1.95	1.73	0.58	0.88	1.37	1.83	2.31	2.82	3.40	4.11	5.05	6.57	7.99
October	2.45	1.69	1.45	0.35	0.55	0.90	1.24	1.60	1.99	2.44	2.99	3.74	4.95	6.11
November	2.13	2.72	0.78	0.53	0.73	1.04	1.32	1.59	1.87	2.19	2.57	3.07	3.85	4.58
December	1.93	2.51	0.77	0.44	0.62	0.90	1.16	1.41	1.68	1.98	2.33	2.80	3.55	4.25

Division--Illinois Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.97	2.42	0.81	0.44	0.62	0.91	1.17	1.43	1.70	2.02	2.39	2.88	3.66	4.40
February	1.68	3.18	0.53	0.48	0.64	0.88	1.09	1.29	1.50	1.74	2.02	2.38	2.94	3.46
March	2.89	4.96	0.58	1.13	1.40	1.78	2.10	2.39	2.70	3.02	3.40	3.88	4.61	5.26
April	3.84	4.49	0.86	1.42	1.78	2.29	2.73	3.14	3.56	4.02	4.55	5.22	6.27	7.22
May	3.93	3.80	1.03	1.29	1.67	2.21	2.68	3.13	3.59	4.09	4.68	5.44	6.62	7.69
June	4.02	3.50	1.15	1.25	1.63	2.20	2.68	3.16	3.64	4.18	4.81	5.63	6.90	8.07
July	3.45	4.25	0.81	1.23	1.55	2.02	2.42	2.80	3.18	3.61	4.10	4.72	5.69	6.58
August	3.25	6.52	0.50	1.47	1.76	2.16	2.48	2.78	3.08	3.40	3.77	4.24	4.94	5.58
September	3.27	2.18	1.50	0.64	0.94	1.42	1.86	2.31	2.79	3.33	3.99	4.85	6.24	7.56
October	2.55	2.22	1.15	0.51	0.74	1.12	1.46	1.81	2.18	2.60	3.10	3.77	4.84	5.86
November	2.28	3.21	0.71	0.66	0.87	1.20	1.48	1.76	2.05	2.36	2.74	3.22	3.98	4.69
December	1.90	3.00	0.63	0.52	0.70	0.97	1.21	1.45	1.69	1.96	2.29	2.70	3.35	3.95

TABLE 21 - Precipitation Probabilities for Climatic Divisions

Illinois Northwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.72	3.01	0.57	0.47	0.64	0.88	1.10	1.31	1.54	1.79	2.08	2.46	3.06	3.61
February	1.30	3.87	0.34	0.44	0.56	0.74	0.89	1.04	1.19	1.36	1.55	1.80	2.19	2.54
March	2.45	4.22	0.58	0.87	1.10	1.43	1.72	1.98	2.26	2.56	2.91	3.36	4.05	4.68
April	3.29	4.26	0.77	1.17	1.48	1.93	2.30	2.66	3.03	3.43	3.90	4.50	5.42	6.27
May	3.81	5.07	0.75	1.51	1.87	2.37	2.78	3.17	3.56	3.99	4.49	5.12	6.08	6.95
June	4.22	7.26	0.58	2.01	2.38	2.88	3.28	3.66	4.03	4.43	4.88	5.45	6.31	7.09
July	3.89	5.35	0.73	1.60	1.95	2.46	2.87	3.26	3.65	4.08	4.57	5.19	6.15	7.01
August	3.63	7.12	0.51	1.72	2.03	2.47	2.82	3.14	3.47	3.81	4.21	4.70	5.45	6.13
September	3.54	2.36	1.50	0.76	1.09	1.61	2.08	2.55	3.06	3.63	4.31	5.20	6.64	7.99
October	2.53	1.50	1.69	0.30	0.49	0.85	1.20	1.57	1.99	2.48	3.09	3.91	5.27	6.59
November	2.22	2.70	0.82	0.55	0.76	1.08	1.37	1.66	1.96	2.29	2.69	3.21	4.03	4.80
December	1.69	3.14	0.54	0.48	0.64	0.88	1.10	1.30	1.52	1.76	2.04	2.40	2.98	3.51

Illinois Northeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.86	3.23	0.58	0.54	0.71	0.98	1.21	1.43	1.67	1.93	2.23	2.62	3.24	3.81
February	1.48	3.53	0.42	0.46	0.60	0.81	0.99	1.16	1.34	1.54	1.77	2.07	2.54	2.97
March	2.57	4.12	0.62	0.90	1.14	1.49	1.79	2.07	2.36	2.68	3.05	3.53	4.27	4.94
April	3.28	4.70	0.70	1.25	1.55	1.99	2.35	2.70	3.05	3.43	3.87	4.44	5.30	6.09
May	3.64	4.96	0.73	1.43	1.76	2.24	2.64	3.01	3.39	3.80	4.28	4.88	5.80	6.62
June	3.80	8.78	0.43	1.96	2.28	2.70	3.04	3.35	3.66	3.98	4.35	4.81	5.50	6.11
July	3.45	4.23	0.81	1.22	1.55	2.02	2.41	2.79	3.18	3.60	4.09	4.72	5.69	6.58
August	3.38	6.18	0.55	1.49	1.79	2.21	2.55	2.87	3.20	3.54	3.93	4.43	5.19	5.87
September	3.29	2.10	1.57	0.62	0.92	1.40	1.84	2.30	2.79	3.34	4.01	4.90	6.33	7.68
October	2.50	1.83	1.37	0.39	0.61	0.97	1.31	1.67	2.06	2.50	3.05	3.77	4.95	6.07
November	2.10	3.64	0.58	0.67	0.87	1.17	1.42	1.66	1.91	2.19	2.51	2.93	3.58	4.17
December	1.80	3.00	0.60	0.49	0.66	0.92	1.15	1.37	1.61	1.87	2.17	2.57	3.20	3.78

TABLE 22 - Precipitation Probabilities for Climatic Divisions

Illinois West Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.85	2.18	0.85	0.36	0.53	0.80	1.05	1.30	1.58	1.88	2.25	2.74	3.52	4.27
February	1.50	3.50	0.43	0.46	0.61	0.82	1.00	1.17	1.36	1.56	1.79	2.10	2.57	3.01
March	2.84	3.28	0.87	0.84	1.11	1.51	1.86	2.20	2.56	2.95	3.42	4.01	4.95	5.82
April	3.60	4.83	0.75	1.39	1.72	2.20	2.60	2.97	3.35	3.77	4.25	4.85	5.78	6.62
May	4.03	4.24	0.95	1.43	1.81	2.36	2.83	3.27	3.72	4.21	4.79	5.52	6.66	7.70
June	4.65	4.60	1.01	1.74	2.18	2.80	3.32	3.81	4.32	4.87	5.50	6.31	7.55	8.69
July	3.78	3.29	1.15	1.11	1.47	2.01	2.48	2.93	3.41	3.93	4.54	5.34	6.58	7.74
August	3.60	4.90	0.74	1.40	1.73	2.21	2.60	2.98	3.36	3.77	4.24	4.84	5.76	6.58
September	3.53	1.86	1.89	0.57	0.88	1.39	1.87	2.37	2.92	3.54	4.30	5.32	6.95	8.50
October	2.64	2.02	1.31	0.48	0.71	1.10	1.46	1.83	2.22	2.68	3.22	3.95	5.13	6.25
November	2.18	2.49	0.87	0.50	0.70	1.02	1.30	1.59	1.89	2.23	2.64	3.18	4.03	4.83
December	1.77	3.31	0.53	0.52	0.69	0.94	1.16	1.37	1.59	1.84	2.12	2.49	3.07	3.61

Illinois East Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.92	2.58	0.74	0.45	0.63	0.91	1.16	1.41	1.67	1.97	2.32	2.78	3.51	4.20
February	1.85	3.20	0.58	0.53	0.71	0.98	1.21	1.43	1.66	1.92	2.23	2.62	3.24	3.82
March	2.84	4.71	0.60	1.08	1.35	1.72	2.04	2.34	2.64	2.97	3.36	3.85	4.59	5.27
April	3.76	5.43	0.69	1.55	1.90	2.38	2.78	3.16	3.53	3.94	4.42	5.01	5.92	6.75
May	3.99	3.58	1.11	1.26	1.64	2.20	2.68	3.15	3.63	4.16	4.78	5.58	6.82	7.97
June	4.14	3.80	1.09	1.36	1.75	2.33	2.82	3.29	3.78	4.31	4.93	5.73	6.96	8.09
July	3.76	3.60	1.04	1.19	1.54	2.07	2.52	2.96	3.41	3.91	4.49	5.24	6.40	7.48
August	3.06	6.52	0.47	1.39	1.66	2.03	2.34	2.62	2.90	3.21	3.56	3.99	4.66	5.25
September	3.02	2.26	1.33	0.62	0.89	1.34	1.74	2.15	2.58	3.08	3.67	4.45	5.70	6.88
October	2.71	2.44	1.11	0.61	0.86	1.25	1.61	1.97	2.35	2.78	3.29	3.97	5.04	6.05
November	2.35	4.29	0.55	0.84	1.06	1.38	1.65	1.91	2.17	2.46	2.79	3.22	3.88	4.48
December	1.91	3.08	0.62	0.53	0.71	0.99	1.23	1.46	1.70	1.98	2.30	2.71	3.36	3.97

TABLE 23 - Precipitation Probabilities for Climatic Divisions

Illinois West Southwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.97	2.15	0.92	0.38	0.56	0.85	1.12	1.39	1.68	2.00	2.40	2.93	3.77	4.57
February	1.90	3.02	0.63	0.52	0.70	0.98	1.22	1.45	1.70	1.97	2.29	2.71	3.37	3.98
March	3.09	4.06	0.76	1.07	1.36	1.78	2.14	2.48	2.84	3.22	3.67	4.25	5.14	5.96
April	3.63	5.34	0.68	1.48	1.82	2.29	2.67	3.04	3.41	3.80	4.26	4.84	5.73	6.54
May	4.08	3.72	1.10	1.32	1.71	2.28	2.77	3.24	3.72	4.25	4.88	5.67	6.91	8.05
June	4.37	3.34	1.31	1.30	1.72	2.34	2.88	3.40	3.94	4.54	5.24	6.15	7.57	8.89
July	3.32	3.19	1.04	0.95	1.27	1.75	2.16	2.56	2.98	3.45	4.00	4.71	5.82	6.86
August	3.46	3.19	1.08	0.99	1.32	1.82	2.25	2.67	3.11	3.59	4.16	4.90	6.06	7.13
September	3.00	2.29	1.31	0.63	0.90	1.34	1.74	2.15	2.58	3.06	3.65	4.42	5.65	6.82
October	2.80	2.59	1.08	0.66	0.93	1.34	1.70	2.06	2.45	2.88	3.39	4.07	5.13	6.13
November	2.59	3.24	0.80	0.75	1.00	1.37	1.69	2.00	2.33	2.69	3.11	3.66	4.52	5.32
December	1.89	3.52	0.54	0.59	0.77	1.03	1.26	1.48	1.71	1.96	2.26	2.64	3.23	3.78

Illinois Southwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.21	1.87	1.72	0.52	0.80	1.26	1.71	2.16	2.66	3.22	3.92	4.84	6.32	7.73
February	2.90	2.78	1.04	0.74	1.01	1.43	1.80	2.17	2.56	2.99	3.50	4.17	5.22	6.19
March	4.17	3.80	1.10	1.37	1.77	2.35	2.84	3.32	3.81	4.34	4.97	5.78	7.02	8.16
April	4.08	6.45	0.63	1.84	2.20	2.71	3.11	3.49	3.87	4.28	4.75	5.34	6.23	7.03
May	4.44	3.92	1.13	1.49	1.91	2.53	3.05	3.55	4.06	4.62	5.28	6.12	7.41	8.59
June	4.22	3.56	1.18	1.32	1.73	2.32	2.83	3.32	3.83	4.39	5.05	5.89	7.21	8.43
July	3.40	5.24	0.65	1.38	1.69	2.13	2.49	2.84	3.18	3.56	3.99	4.54	5.39	6.15
August	3.72	2.84	1.31	0.96	1.31	1.85	2.33	2.80	3.29	3.84	4.48	5.33	6.65	7.88
September	3.43	3.27	1.05	1.01	1.33	1.82	2.24	2.66	3.09	3.56	4.12	4.84	5.97	7.02
October	2.86	2.24	1.28	0.58	0.84	1.26	1.65	2.03	2.45	2.92	3.48	4.23	5.43	6.56
November	3.39	2.93	1.16	0.90	1.22	1.71	2.14	2.56	3.01	3.50	4.08	4.83	6.01	7.09
December	2.82	3.97	0.71	0.96	1.22	1.61	1.94	2.26	2.58	2.94	3.35	3.88	4.69	5.42

TABLE 24 - Precipitation Probabilities for Climatic Divisions

Illinois East Southeast Division

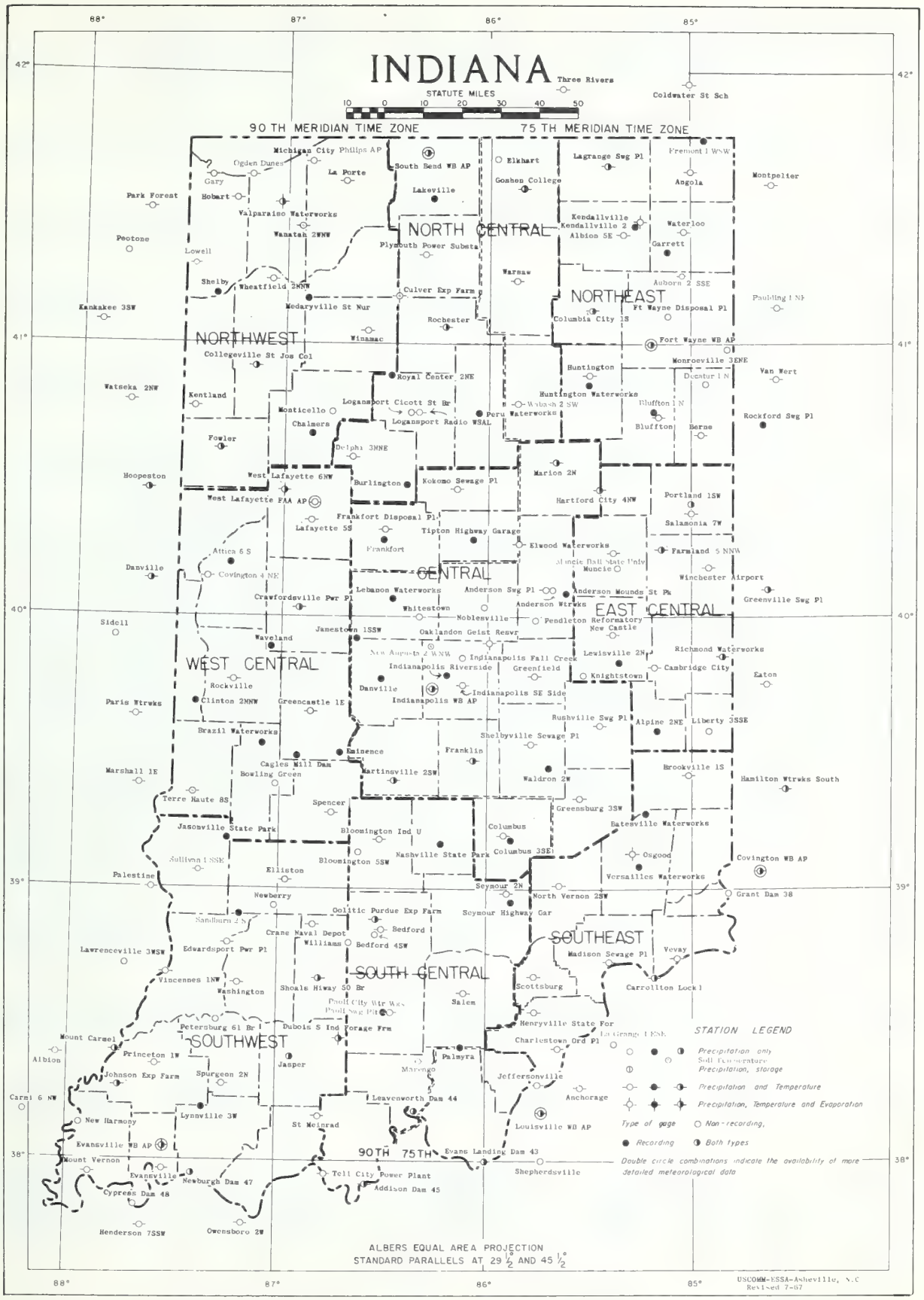
Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.71	2.08	1.30	0.50	0.75	1.14	1.51	1.88	2.29	2.75	3.30	4.04	5.22	6.35
February	2.34	2.75	0.85	0.59	0.81	1.15	1.45	1.75	2.06	2.41	2.82	3.37	4.22	5.02
March	3.66	3.46	1.06	1.12	1.47	1.99	2.44	2.87	3.32	3.81	4.39	5.13	6.30	7.38
April	3.73	5.92	0.63	1.61	1.95	2.42	2.80	3.16	3.52	3.91	4.36	4.92	5.76	6.52
May	4.37	3.49	1.25	1.35	1.77	2.38	2.91	3.43	3.96	4.55	5.23	6.12	7.50	8.78
June	4.37	4.09	1.07	1.52	1.93	2.53	3.04	3.52	4.02	4.56	5.20	6.01	7.27	8.42
July	3.57	5.35	0.67	1.46	1.79	2.25	2.63	2.98	3.35	3.74	4.19	4.76	5.63	6.42
August	3.22	4.34	0.74	1.16	1.47	1.90	2.27	2.62	2.98	3.37	3.82	4.40	5.29	6.11
September	3.09	2.82	1.10	0.80	1.09	1.54	1.93	2.32	2.73	3.19	3.73	4.44	5.55	6.58
October	2.74	2.45	1.12	0.62	0.87	1.27	1.63	1.99	2.38	2.81	3.33	4.00	5.08	6.10
November	3.18	3.60	0.88	1.01	1.31	1.76	2.14	2.51	2.89	3.31	3.81	4.44	5.43	6.34
December	2.51	4.31	0.58	0.90	1.14	1.48	1.77	2.04	2.32	2.62	2.98	3.43	4.13	4.77

Illinois Southeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.59	1.85	1.95	0.57	0.88	1.40	1.90	2.41	2.96	3.60	4.38	5.41	7.09	8.68
February	3.00	2.33	1.29	0.64	0.91	1.35	1.75	2.15	2.58	3.06	3.64	4.41	5.63	6.78
March	4.39	3.47	1.27	1.35	1.77	2.39	2.92	3.44	3.98	4.57	5.26	6.15	7.55	8.84
April	4.09	6.55	0.62	1.86	2.22	2.72	3.13	3.50	3.88	4.29	4.75	5.34	6.22	7.02
May	4.46	3.56	1.25	1.40	1.82	2.45	2.99	3.51	4.05	4.64	5.34	6.23	7.62	8.91
June	3.93	4.33	0.91	1.42	1.79	2.32	2.77	3.19	3.63	4.11	4.66	5.37	6.46	7.46
July	3.62	4.84	0.75	1.40	1.73	2.21	2.61	2.98	3.37	3.78	4.26	4.87	5.80	6.64
August	3.42	2.94	1.16	0.92	1.24	1.73	2.17	2.59	3.04	3.53	4.12	4.88	6.06	7.15
September	3.31	2.53	1.31	0.77	1.08	1.56	1.99	2.43	2.89	3.40	4.01	4.82	6.09	7.29
October	2.69	2.11	1.27	0.51	0.75	1.15	1.51	1.88	2.28	2.73	3.28	4.00	5.17	6.27
November	3.49	3.21	1.09	1.01	1.34	1.84	2.27	2.70	3.14	3.62	4.20	4.94	6.10	7.19
December	3.05	3.76	0.81	1.00	1.29	1.71	2.07	2.42	2.78	3.18	3.64	4.23	5.15	5.99



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Revised 7-67

TABLE 25 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Indianapolis, Indiana

Probabilities (Based on 37 years of Data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.90	1.65	1.76	0.40	0.63	1.05	1.45	1.88	2.34	2.88	3.54	4.44	5.90	7.31
February	2.31	2.95	0.78	0.62	0.84	1.17	1.46	1.75	2.05	2.39	2.78	3.29	4.09	4.83
March	3.76	3.03	1.24	1.03	1.39	1.93	2.40	2.87	3.35	3.89	4.53	5.36	6.66	7.87
April	3.87	4.54	0.85	1.44	1.80	2.32	2.76	3.17	3.59	4.05	4.58	5.26	6.31	7.26
May	3.86	2.53	1.52	0.90	1.25	1.82	2.32	2.83	3.36	3.96	4.67	5.61	7.10	8.49
June	4.25	2.96	1.44	1.15	1.55	2.16	2.70	3.23	3.78	4.39	5.11	6.05	7.52	8.87
July	3.55	4.15	0.86	1.24	1.58	2.06	2.47	2.87	3.27	3.71	4.22	4.87	5.88	6.81
August	2.95	4.93	0.60	1.15	1.43	1.81	2.14	2.44	2.75	3.09	3.47	3.96	4.71	5.38
September	3.22	2.61	1.23	0.77	1.07	1.54	1.96	2.38	2.82	3.31	3.90	4.66	5.88	7.02
October	2.48	1.84	1.35	0.40	0.61	0.97	1.31	1.66	2.05	2.49	3.03	3.74	4.90	6.00
November	3.03	4.83	0.63	1.17	1.45	1.85	2.18	2.50	2.82	3.16	3.57	4.08	4.86	5.56
December	2.74	3.31	0.83	0.81	1.07	1.46	1.80	2.13	2.47	2.85	3.29	3.87	4.77	5.60

Division--Indiana Central Division

Probabilities (Based on 35 years of data)

Month	**Mean**	**Gamma**	**Beta**	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.89	1.90	1.52	0.48	0.73	1.15	1.54	1.95	2.39	2.90	3.51	4.33	5.65	6.90
February	2.34	3.08	0.76	0.65	0.88	1.21	1.51	1.80	2.10	2.43	2.82	3.33	4.14	4.88
March	3.64	3.86	0.94	1.21	1.55	2.06	2.49	2.90	3.32	3.79	4.33	5.02	6.10	7.07
April	3.90	4.92	0.79	1.52	1.88	2.40	2.82	3.23	3.64	4.08	4.59	5.24	6.23	7.12
May	4.15	3.75	1.11	1.35	1.75	2.33	2.82	3.29	3.78	4.32	4.95	5.76	7.01	8.15
June	4.12	5.04	0.82	1.63	2.01	2.55	3.00	3.43	3.86	4.32	4.86	5.54	6.58	7.54
July	3.73	5.17	0.72	1.50	1.84	2.33	2.73	3.11	3.49	3.91	4.39	5.00	5.93	6.77
August	3.04	13.46	0.23	1.81	2.04	2.33	2.55	2.76	2.96	3.17	3.41	3.70	4.13	4.51
September	3.23	2.41	1.34	0.71	1.01	1.48	1.91	2.34	2.80	3.31	3.93	4.74	6.03	7.24
October	2.47	2.24	1.10	0.50	0.73	1.09	1.42	1.75	2.11	2.52	3.00	3.64	4.67	5.64
November	2.87	4.76	0.60	1.10	1.36	1.74	2.06	2.36	2.67	3.00	3.38	3.87	4.62	5.30
December	2.41	3.37	0.72	0.73	0.95	1.30	1.59	1.88	2.18	2.51	2.89	3.39	4.17	4.90

TABLE 26 - Precipitation Probabilities for Climatic Divisions

Indiana Northwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.10	3.85	0.55	0.70	0.90	1.19	1.44	1.68	1.92	2.19	2.50	2.90	3.52	4.09
February	1.94	4.25	0.46	0.69	0.87	1.13	1.36	1.57	1.79	2.02	2.30	2.65	3.19	3.69
March	2.87	6.49	0.44	1.30	1.55	1.90	2.19	2.45	2.72	3.01	3.33	3.75	4.37	4.93
April	3.87	5.94	0.65	1.67	2.02	2.51	2.90	3.27	3.65	4.05	4.51	5.09	5.96	6.74
May	3.96	4.52	0.88	1.47	1.84	2.37	2.81	3.24	3.67	4.14	4.68	5.38	6.45	7.43
June	4.23	5.43	0.78	1.74	2.13	2.67	3.12	3.54	3.97	4.43	4.96	5.63	6.65	7.58
July	3.63	3.24	1.12	1.06	1.40	1.92	2.37	2.81	3.26	3.77	4.36	5.13	6.33	7.44
August	3.43	7.38	0.46	1.65	1.94	2.35	2.67	2.98	3.28	3.60	3.96	4.42	5.11	5.74
September	3.37	2.57	1.31	0.80	1.11	1.60	2.04	2.48	2.95	3.47	4.08	4.90	6.18	7.39
October	3.10	2.12	1.46	0.59	0.87	1.32	1.74	2.17	2.63	3.15	3.77	4.61	5.94	7.22
November	2.54	6.82	0.37	1.18	1.40	1.71	1.96	2.19	2.42	2.66	2.95	3.30	3.83	4.31
December	2.10	3.60	0.58	0.66	0.86	1.16	1.41	1.66	1.91	2.19	2.51	2.93	3.58	4.18

Indiana North Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.13	2.78	0.77	0.54	0.74	1.05	1.32	1.59	1.88	2.20	2.57	3.06	3.83	4.55
February	1.92	4.02	0.48	0.66	0.84	1.10	1.33	1.54	1.76	2.00	2.28	2.64	3.20	3.71
March	2.76	7.08	0.39	1.30	1.54	1.87	2.14	2.38	2.63	2.90	3.20	3.57	4.14	4.66
April	3.79	5.15	0.74	1.52	1.87	2.36	2.77	3.16	3.55	3.97	4.46	5.08	6.03	6.89
May	3.67	5.34	0.69	1.50	1.84	2.31	2.70	3.07	3.44	3.84	4.31	4.89	5.79	6.60
June	4.05	8.35	0.49	2.05	2.39	2.85	3.22	3.55	3.89	4.25	4.65	5.16	5.92	6.60
July	3.72	4.08	0.91	1.29	1.64	2.15	2.58	2.99	3.42	3.88	4.42	5.11	6.19	7.17
August	3.35	8.84	0.38	1.74	2.01	2.39	2.68	2.96	3.23	3.51	3.84	4.24	4.85	5.38
September	3.13	3.70	0.85	1.01	1.31	1.75	2.12	2.48	2.85	3.26	3.74	4.35	5.30	6.18
October	2.94	2.19	1.34	0.58	0.85	1.28	1.67	2.07	2.50	2.99	3.58	4.35	5.59	6.77
November	2.49	7.72	0.32	1.22	1.43	1.72	1.95	2.17	2.38	2.61	2.87	3.20	3.68	4.12
December	1.96	3.20	0.61	0.57	0.75	1.03	1.28	1.52	1.76	2.04	2.36	2.78	3.44	4.05

TABLE 27 - Precipitation Probabilities for Climatic Divisions

Indiana Northeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.31	2.61	0.88	0.55	0.77	1.11	1.41	1.71	2.02	2.38	2.80	3.35	4.22	5.04
February	1.99	4.13	0.48	0.69	0.88	1.15	1.38	1.60	1.83	2.08	2.36	2.73	3.30	3.82
March	2.92	5.53	0.53	1.22	1.49	1.86	2.17	2.46	2.75	3.06	3.43	3.88	4.58	5.22
April	3.53	6.19	0.57	1.56	1.88	2.31	2.67	3.00	3.34	3.70	4.11	4.63	5.42	6.14
May	3.66	4.83	0.76	1.41	1.75	2.23	2.64	3.02	3.41	3.83	4.31	4.93	5.87	6.73
June	3.94	7.75	0.51	1.94	2.27	2.73	3.10	3.44	3.78	4.14	4.55	5.06	5.83	6.51
July	3.54	6.45	0.55	1.60	1.91	2.35	2.70	3.03	3.36	3.72	4.12	4.63	5.41	6.10
August	3.14	11.97	0.26	1.81	2.05	2.36	2.61	2.83	3.05	3.28	3.54	3.86	4.33	4.74
September	2.96	3.63	0.81	0.94	1.22	1.64	2.00	2.34	2.69	3.08	3.54	4.13	5.04	5.88
October	2.69	2.29	1.18	0.56	0.81	1.20	1.56	1.92	2.31	2.75	3.27	3.96	5.07	6.12
November	2.50	6.27	0.40	1.11	1.34	1.64	1.90	2.13	2.37	2.62	2.91	3.28	3.83	4.34
December	2.05	3.25	0.63	0.60	0.79	1.09	1.34	1.59	1.84	2.13	2.46	2.89	3.57	4.20

Indiana West Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.62	2.03	1.29	0.47	0.71	1.09	1.45	1.81	2.20	2.65	3.20	3.92	5.08	6.19
February	2.22	2.94	0.75	0.59	0.80	1.12	1.40	1.68	1.97	2.29	2.67	3.16	3.93	4.63
March	3.32	4.24	0.78	1.18	1.49	1.94	2.33	2.69	3.06	3.47	3.94	4.54	5.48	6.33
April	3.80	6.07	0.63	1.66	2.01	2.48	2.87	3.23	3.59	3.98	4.43	5.00	5.86	6.64
May	4.44	3.50	1.27	1.37	1.80	2.42	2.96	3.48	4.02	4.61	5.31	6.21	7.61	8.91
June	4.68	3.60	1.30	1.48	1.92	2.58	3.15	3.69	4.25	4.87	5.60	6.53	7.98	9.33
July	3.71	4.07	0.91	1.28	1.63	2.15	2.58	2.99	3.42	3.88	4.42	5.11	6.18	7.17
August	3.35	10.36	0.32	1.84	2.11	2.46	2.74	2.99	3.25	3.51	3.81	4.18	4.74	5.23
September	3.29	2.73	1.20	0.82	1.13	1.61	2.04	2.46	2.90	3.39	3.98	4.74	5.95	7.07
October	2.71	2.34	1.16	0.58	0.83	1.22	1.59	1.95	2.33	2.77	3.29	3.98	5.08	6.12
November	2.95	5.73	0.51	1.25	1.52	1.89	2.20	2.49	2.78	3.09	3.45	3.90	4.59	5.21
December	2.28	3.50	0.65	0.70	0.92	1.24	1.52	1.79	2.07	2.37	2.73	3.19	3.91	4.58

TABLE 28 - Precipitation Probabilities for Climatic Divisions

Indiana East Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.92	1.90	1.54	0.48	0.74	1.16	1.56	1.97	2.42	2.93	3.55	4.38	5.71	6.97
February	2.34	3.50	0.67	0.72	0.95	1.28	1.56	1.84	2.12	2.43	2.80	3.28	4.01	4.70
March	3.61	3.86	0.94	1.20	1.54	2.04	2.47	2.88	3.30	3.76	4.30	4.99	6.06	7.03
April	4.00	4.40	0.91	1.46	1.83	2.37	2.83	3.26	3.70	4.18	4.74	5.45	6.55	7.56
May	3.95	3.31	1.19	1.17	1.55	2.11	2.60	3.07	3.56	4.10	4.74	5.57	6.86	8.06
June	4.28	3.45	1.24	1.31	1.72	2.33	2.85	3.35	3.88	4.46	5.13	6.01	7.37	8.64
July	3.77	7.77	0.48	1.85	2.17	2.61	2.96	3.28	3.61	3.95	4.34	4.83	5.56	6.21
August	2.93	8.22	0.36	1.47	1.72	2.05	2.32	2.56	2.81	3.07	3.36	3.73	4.29	4.78
September	3.19	1.93	1.65	0.54	0.82	1.28	1.72	2.17	2.65	3.21	3.88	4.78	6.22	7.57
October	2.64	1.76	1.50	0.40	0.62	1.00	1.37	1.75	2.16	2.64	3.22	4.01	5.28	6.50
November	2.77	4.70	0.59	1.05	1.31	1.68	1.99	2.28	2.58	2.90	3.27	3.75	4.48	5.14
December	2.39	3.42	0.70	0.73	0.96	1.29	1.59	1.87	2.16	2.49	2.87	3.36	4.13	4.84

Indiana Southwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.62	1.84	1.96	0.58	0.89	1.41	1.91	2.43	2.99	3.63	4.41	5.46	7.15	8.75
February	2.85	2.20	1.29	0.57	0.83	1.24	1.63	2.01	2.43	2.90	3.46	4.21	5.41	6.55
March	4.34	3.16	1.37	1.24	1.65	2.27	2.82	3.34	3.90	4.51	5.22	6.16	7.62	8.98
April	3.90	4.96	0.79	1.53	1.89	2.40	2.83	3.23	3.63	4.08	4.58	5.23	6.21	7.09
May	4.42	3.73	1.18	1.43	1.85	2.47	3.00	3.50	4.03	4.60	5.27	6.13	7.47	8.70
June	4.20	4.63	0.91	1.58	1.97	2.53	3.00	3.45	3.90	4.40	4.97	5.69	6.81	7.83
July	3.64	6.82	0.53	1.69	2.00	2.44	2.80	3.13	3.46	3.81	4.21	4.72	5.48	6.16
August	3.27	3.82	0.86	1.08	1.39	1.84	2.23	2.60	2.99	3.40	3.89	4.52	5.49	6.38
September	3.21	2.99	1.07	0.87	1.17	1.64	2.04	2.44	2.85	3.31	3.85	4.56	5.66	6.66
October	2.45	2.06	1.19	0.45	0.67	1.03	1.36	1.70	2.07	2.49	2.99	3.66	4.74	5.76
November	3.19	3.61	0.88	1.01	1.31	1.76	2.14	2.51	2.90	3.32	3.81	4.44	5.43	6.34
December	2.88	3.93	0.73	0.97	1.24	1.64	1.98	2.30	2.63	3.00	3.42	3.96	4.80	5.56

TABLE 29 - Precipitation Probabilities for Climatic Divisions

Indiana South Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.02	1.92	2.09	0.68	1.03	1.61	2.16	2.73	3.34	4.04	4.89	6.02	7.83	9.55
February	3.12	2.44	1.28	0.70	0.99	1.44	1.86	2.27	2.71	3.20	3.79	4.56	5.80	6.96
March	4.68	3.11	1.50	1.32	1.76	2.43	3.02	3.59	4.19	4.85	5.63	6.65	8.24	9.72
April	3.89	4.52	0.86	1.44	1.80	2.33	2.76	3.18	3.61	4.07	4.60	5.29	6.34	7.30
May	4.24	4.08	1.04	1.47	1.87	2.45	2.94	3.41	3.90	4.42	5.04	5.83	7.05	8.17
June	4.50	3.75	1.20	1.47	1.90	2.52	3.06	3.57	4.11	4.69	5.37	6.24	7.60	8.85
July	3.81	6.82	0.56	1.77	2.10	2.56	2.93	3.28	3.62	3.99	4.42	4.95	5.75	6.46
August	3.15	4.96	0.64	1.23	1.53	1.94	2.28	2.61	2.94	3.29	3.71	4.23	5.02	5.73
September	3.22	3.06	1.05	0.89	1.20	1.66	2.07	2.47	2.88	3.34	3.88	4.59	5.69	6.73
October	2.49	2.09	1.19	0.47	0.69	1.06	1.40	1.74	2.11	2.53	3.04	3.71	4.80	5.83
November	3.24	3.45	0.94	0.99	1.30	1.76	2.16	2.54	2.94	3.37	3.89	4.55	5.58	6.54
December	3.07	3.77	0.82	1.01	1.30	1.73	2.09	2.44	2.81	3.20	3.67	4.26	5.19	6.04

Indiana Southeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.89	2.06	1.89	0.72	1.06	1.63	2.16	2.70	3.28	3.94	4.74	5.81	7.52	9.15
February	3.26	2.34	1.39	0.70	1.00	1.48	1.91	2.35	2.81	3.34	3.96	4.79	6.12	7.37
March	4.74	3.21	1.47	1.37	1.82	2.50	3.08	3.66	4.25	4.91	5.69	6.70	8.28	9.75
April	3.79	3.91	0.97	1.27	1.63	2.16	2.60	3.03	3.47	3.95	4.51	5.22	6.33	7.33
May	3.92	3.43	1.14	1.19	1.57	2.12	2.60	3.07	3.55	4.08	4.70	5.51	6.76	7.92
June	4.26	3.38	1.26	1.28	1.69	2.29	2.81	3.32	3.85	4.43	5.11	5.99	7.36	8.64
July	3.86	5.94	0.65	1.67	2.02	2.50	2.90	3.27	3.64	4.04	4.50	5.08	5.95	6.73
August	3.15	4.59	0.68	1.18	1.47	1.89	2.24	2.58	2.92	3.29	3.72	4.27	5.11	5.88
September	2.91	3.48	0.84	0.90	1.17	1.59	1.94	2.28	2.64	3.03	3.49	4.08	5.00	5.86
October	2.45	2.28	1.08	0.51	0.73	1.09	1.42	1.75	2.11	2.51	2.99	3.62	4.63	5.59
November	3.07	3.23	0.95	0.89	1.18	1.62	2.00	2.37	2.76	3.18	3.69	4.34	5.36	6.30
December	2.93	3.60	0.81	0.93	1.21	1.62	1.97	2.31	2.67	3.05	3.51	4.09	5.00	5.84

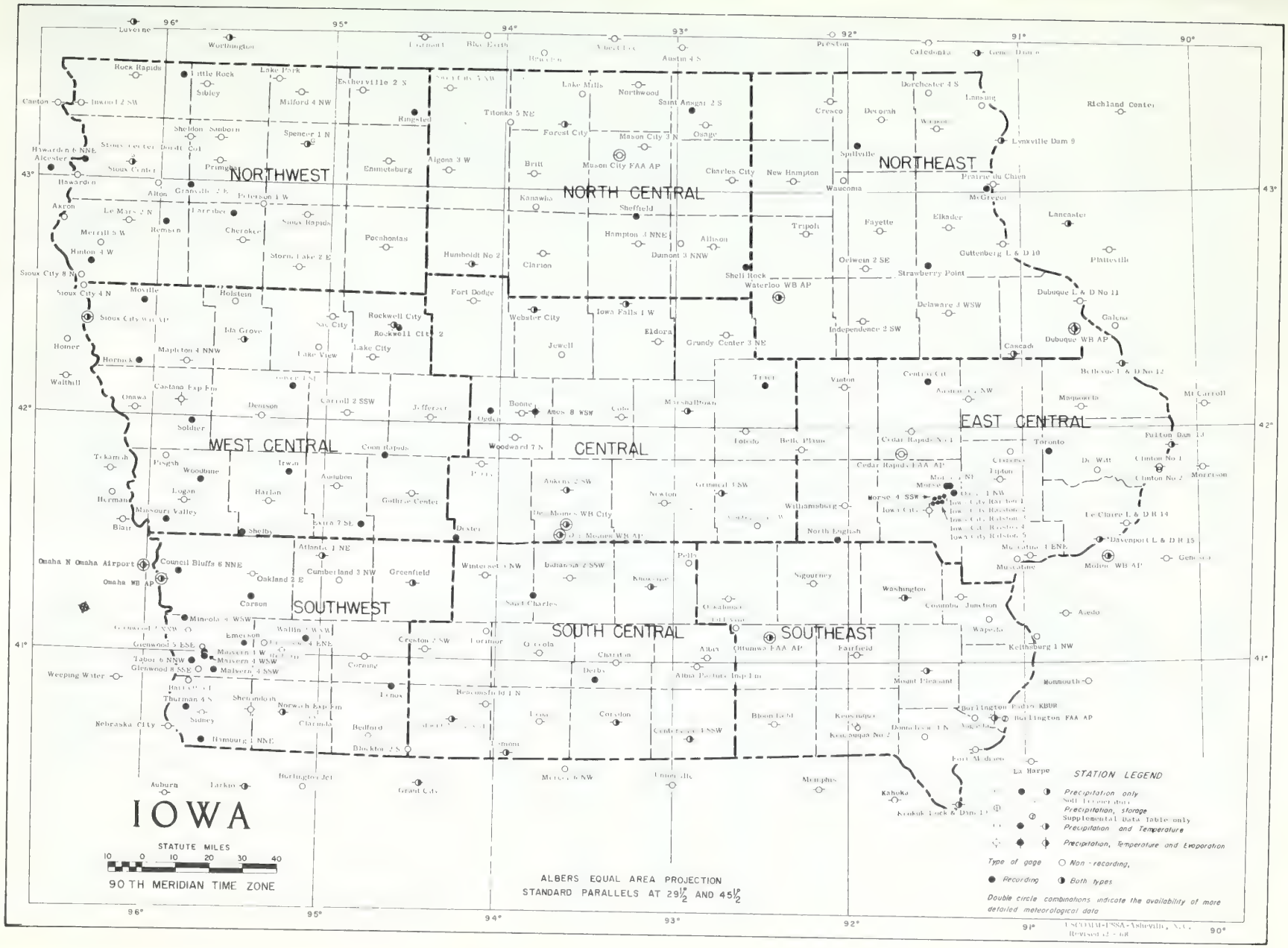
IOWA
NORTHWEST
NORTH CENTRAL
NORTHEAST
WEST CENTRAL
CENTRAL
EAST CENTRAL
SOUTHWEST
SOUTH CENTRAL
SOUTHEAST
STATUTE MILES
10 0 10 20 30 40
90 TH MERIDIAN TIME ZONE
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29½° AND 45½°
STATION LEGEND
Precipitation only
Soil Temperature
Precipitation, storage
Supplemental Data Table only
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
USCOMM-ESSA-Asheville, N.C.
Revised 12-68

TABLE 30 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Des Moines, Iowa

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.21	2.18	0.56	0.24	0.35	0.52	0.69	0.85	1.03	1.23	1.47	1.79	2.30	2.79
February	1.08	1.65	0.65	0.15	0.24	0.39	0.54	0.70	0.87	1.07	1.32	1.65	2.19	2.71
March	2.16	3.41	0.63	0.66	0.86	1.17	1.43	1.69	1.95	2.25	2.59	3.04	3.73	4.38
April	2.58	3.43	0.75	0.79	1.03	1.40	1.72	2.02	2.34	2.69	3.10	3.63	4.46	5.22
May	4.02	3.73	1.08	1.30	1.69	2.25	2.73	3.19	3.66	4.19	4.80	5.58	6.80	7.92
June	4.70	3.03	1.55	1.29	1.74	2.42	3.01	3.59	4.20	4.87	5.66	6.70	8.32	9.84
July	3.11	2.37	1.31	0.67	0.96	1.42	1.83	2.25	2.69	3.19	3.78	4.57	5.82	7.01
August	3.48	2.45	1.42	0.78	1.11	1.62	2.08	2.53	3.02	3.57	4.23	5.09	6.46	7.75
September	3.13	1.75	1.79	0.46	0.73	1.18	1.61	2.06	2.56	3.12	3.82	4.75	6.27	7.72
October	1.99	1.15	1.74	0.14	0.27	0.52	0.79	1.10	1.45	1.88	2.42	3.17	4.44	5.70
November	1.67	1.45	1.15	0.18	0.31	0.54	0.77	1.02	1.30	1.63	2.04	2.59	3.50	4.39
December	1.11	2.27	0.49	0.23	0.33	0.49	0.64	0.79	0.95	1.13	1.35	1.63	2.09	2.52

Division--Iowa Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.10	2.33	0.47	0.23	0.33	0.49	0.64	0.79	0.94	1.12	1.33	1.61	2.06	2.48
February	1.06	2.08	0.51	0.20	0.29	0.45	0.59	0.74	0.90	1.08	1.30	1.59	2.05	2.49
March	2.11	3.73	0.57	0.69	0.89	1.18	1.43	1.67	1.92	2.20	2.52	2.93	3.57	4.16
April	2.77	3.56	0.78	0.87	1.13	1.52	1.86	2.18	2.51	2.88	3.31	3.87	4.74	5.54
May	4.14	4.57	0.91	1.54	1.93	2.49	2.95	3.39	3.84	4.33	4.90	5.62	6.74	7.75
June	4.77	4.70	1.01	1.81	2.25	2.89	3.42	3.92	4.43	4.99	5.63	6.44	7.70	8.84
July	3.77	4.02	0.94	1.29	1.65	2.17	2.61	3.03	3.46	3.93	4.48	5.19	6.28	7.29
August	3.75	4.38	0.86	1.36	1.71	2.22	2.65	3.05	3.47	3.92	4.44	5.11	6.15	7.09
September	3.52	2.41	1.46	0.78	1.10	1.62	2.08	2.55	3.05	3.60	4.27	5.15	6.55	7.87
October	1.97	1.70	1.16	0.28	0.44	0.73	1.00	1.29	1.60	1.97	2.41	3.01	3.98	4.92
November	1.77	1.64	1.08	0.24	0.38	0.63	0.88	1.14	1.42	1.75	2.16	2.71	3.60	4.47
December	1.10	3.30	0.33	0.32	0.43	0.59	0.72	0.85	0.99	1.14	1.32	1.55	1.91	2.25

TABLE 31 - Precipitation Probabilities for Climatic Divisions

Iowa Northwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.63	2.19	0.29	0.12	0.18	0.27	0.36	0.44	0.54	0.64	0.76	0.93	1.19	1.45
February	0.97	1.85	0.52	0.16	0.24	0.38	0.51	0.65	0.80	0.97	1.18	1.46	1.91	2.34
March	1.61	4.07	0.40	0.56	0.71	0.93	1.12	1.30	1.48	1.68	1.92	2.22	2.68	3.11
April	2.31	4.17	0.55	0.81	1.03	1.35	1.61	1.87	2.13	2.41	2.75	3.17	3.83	4.43
May	3.79	3.47	1.09	1.17	1.53	2.06	2.52	2.97	3.43	3.94	4.54	5.31	6.51	7.62
June	4.59	6.31	0.73	2.05	2.46	3.03	3.49	3.92	4.35	4.81	5.35	6.02	7.03	7.95
July	3.55	3.98	0.89	1.21	1.54	2.03	2.45	2.84	3.25	3.70	4.22	4.88	5.90	6.82
August	3.57	4.67	0.76	1.35	1.68	2.16	2.56	2.94	3.32	3.74	4.22	4.84	5.78	6.64
September	3.17	2.10	1.51	0.60	0.88	1.34	1.77	2.21	2.68	3.21	3.86	4.71	6.09	7.39
October	1.48	1.31	1.13	0.14	0.24	0.44	0.65	0.87	1.13	1.43	1.80	2.32	3.19	4.04
November	1.11	1.33	0.84	0.11	0.18	0.34	0.49	0.66	0.85	1.07	1.35	1.74	2.38	3.01
December	0.78	2.42	0.32	0.17	0.25	0.36	0.46	0.57	0.68	0.80	0.95	1.15	1.46	1.75

Iowa North Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.92	2.44	0.38	0.21	0.29	0.43	0.55	0.67	0.80	0.95	1.12	1.35	1.71	2.06
February	1.00	1.95	0.51	0.17	0.26	0.40	0.54	0.68	0.83	1.00	1.21	1.49	1.94	2.36
March	2.01	4.27	0.47	0.72	0.90	1.18	1.41	1.63	1.85	2.10	2.38	2.74	3.31	3.82
April	2.54	3.54	0.72	0.79	1.03	1.39	1.70	2.00	2.30	2.64	3.04	3.55	4.35	5.08
May	3.98	5.38	0.74	1.63	2.00	2.51	2.93	3.33	3.73	4.17	4.67	5.30	6.27	7.15
June	4.71	5.93	0.79	2.04	2.46	3.06	3.54	3.99	4.45	4.94	5.50	6.20	7.27	8.23
July	3.82	3.98	0.96	1.30	1.66	2.19	2.63	3.06	3.50	3.98	4.53	5.25	6.34	7.33
August	3.94	4.11	0.96	1.37	1.75	2.29	2.74	3.18	3.63	4.12	4.69	5.42	6.55	7.59
September	3.55	2.12	1.67	0.68	1.00	1.52	2.00	2.49	3.01	3.60	4.32	5.28	6.81	8.26
October	1.79	1.36	1.32	0.18	0.31	0.55	0.80	1.07	1.37	1.73	2.18	2.80	3.82	4.82
November	1.58	1.68	0.94	0.22	0.35	0.58	0.79	1.02	1.28	1.57	1.93	2.41	3.19	3.95
December	0.99	3.33	0.30	0.29	0.39	0.53	0.65	0.77	0.89	1.02	1.18	1.39	1.71	2.01

TABLE 32 - Precipitation Probabilities for Climatic Divisions

Iowa Northeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.08	2.58	0.42	0.25	0.36	0.51	0.65	0.79	0.94	1.11	1.30	1.56	1.97	2.36
February	0.99	2.13	0.47	0.19	0.28	0.43	0.56	0.70	0.84	1.01	1.21	1.48	1.90	2.31
March	2.16	4.56	0.47	0.80	1.01	1.30	1.54	1.77	2.00	2.26	2.56	2.93	3.51	4.04
April	2.82	3.98	0.71	0.96	1.23	1.62	1.94	2.26	2.58	2.94	3.35	3.88	4.69	5.42
May	3.93	6.26	0.63	1.75	2.10	2.59	2.98	3.35	3.73	4.12	4.58	5.16	6.03	6.82
June	4.54	5.61	0.81	1.91	2.32	2.90	3.37	3.82	4.27	4.76	5.31	6.02	7.10	8.07
July	3.96	4.39	0.90	1.44	1.81	2.35	2.80	3.22	3.66	4.14	4.69	5.40	6.49	7.49
August	3.85	5.70	0.68	1.63	1.98	2.47	2.87	3.25	3.63	4.04	4.51	5.10	6.01	6.82
September	3.78	2.74	1.38	0.95	1.30	1.85	2.34	2.82	3.33	3.90	4.57	5.45	6.83	8.12
October	2.13	1.38	1.54	0.22	0.37	0.67	0.97	1.29	1.65	2.07	2.61	3.33	4.54	5.71
November	1.93	1.97	0.98	0.34	0.50	0.79	1.05	1.32	1.61	1.94	2.34	2.87	3.73	4.53
December	1.16	5.47	0.21	0.48	0.59	0.74	0.86	0.97	1.09	1.22	1.36	1.55	1.83	2.08

Iowa West Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.87	2.43	0.36	0.19	0.27	0.40	0.51	0.63	0.75	0.89	1.05	1.27	1.61	1.93
February	1.01	2.16	0.47	0.20	0.29	0.44	0.57	0.71	0.86	1.03	1.23	1.50	1.93	2.34
March	1.82	3.28	0.56	0.54	0.71	0.97	1.20	1.41	1.64	1.89	2.19	2.57	3.17	3.73
April	2.57	3.50	0.73	0.80	1.04	1.40	1.72	2.02	2.33	2.67	3.08	3.60	4.41	5.16
May	3.93	3.65	1.08	1.26	1.63	2.18	2.65	3.11	3.58	4.10	4.70	5.48	6.69	7.80
June	4.70	5.01	0.94	1.85	2.29	2.90	3.41	3.90	4.39	4.92	5.53	6.31	7.50	8.59
July	3.62	4.21	0.86	1.28	1.62	2.11	2.53	2.93	3.34	3.78	4.30	4.96	5.98	6.92
August	3.84	5.33	0.72	1.57	1.92	2.42	2.83	3.21	3.60	4.02	4.51	5.12	6.06	6.92
September	3.11	2.25	1.38	0.63	0.92	1.37	1.79	2.21	2.66	3.17	3.78	4.59	5.88	7.11
October	1.67	1.32	1.26	0.16	0.28	0.50	0.73	0.99	1.27	1.61	2.04	2.62	3.59	4.54
November	1.31	1.21	1.08	0.10	0.19	0.36	0.54	0.74	0.97	1.25	1.60	2.08	2.88	3.68
December	0.81	1.94	0.42	0.14	0.21	0.33	0.44	0.55	0.68	0.82	0.99	1.22	1.58	1.93

TABLE 33 - Precipitation Probabilities for Climatic Divisions

Iowa East Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.40	2.69	0.52	0.34	0.48	0.68	0.86	1.04	1.23	1.44	1.69	2.02	2.54	3.03
February	1.11	2.39	0.46	0.24	0.34	0.51	0.65	0.80	0.96	1.14	1.35	1.63	2.07	2.49
March	2.29	3.90	0.59	0.77	0.98	1.30	1.57	1.83	2.09	2.38	2.72	3.16	3.83	4.44
April	3.08	3.78	0.81	1.01	1.30	1.73	2.10	2.45	2.81	3.21	3.67	4.27	5.19	6.04
May	3.83	5.58	0.69	1.60	1.95	2.44	2.84	3.22	3.60	4.01	4.48	5.08	5.99	6.82
June	4.50	6.34	0.71	2.01	2.41	2.97	3.42	3.84	4.26	4.72	5.24	5.89	6.89	7.78
July	3.74	4.66	0.80	1.41	1.76	2.26	2.68	3.07	3.48	3.91	4.42	5.07	6.06	6.96
August	3.51	5.17	0.68	1.41	1.73	2.19	2.57	2.92	3.28	3.67	4.13	4.70	5.57	6.37
September	3.65	2.63	1.39	0.88	1.22	1.75	2.23	2.70	3.20	3.76	4.42	5.29	6.67	7.96
October	2.39	1.16	2.06	0.17	0.33	0.63	0.96	1.33	1.75	2.26	2.91	3.80	5.31	6.80
November	2.19	2.06	1.06	0.40	0.60	0.92	1.22	1.52	1.85	2.22	2.67	3.26	4.23	5.14
December	1.47	4.03	0.37	0.51	0.65	0.85	1.02	1.18	1.35	1.54	1.75	2.03	2.46	2.85

Iowa Southwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.92	1.78	0.52	0.14	0.22	0.35	0.48	0.61	0.75	0.92	1.12	1.39	1.83	2.25
February	1.01	2.09	0.48	0.19	0.28	0.43	0.56	0.70	0.85	1.02	1.23	1.50	1.94	2.36
March	2.03	2.38	0.85	0.44	0.63	0.92	1.19	1.46	1.75	2.07	2.46	2.97	3.78	4.55
April	2.67	3.11	0.86	0.75	1.00	1.39	1.72	2.05	2.39	2.76	3.21	3.79	4.69	5.54
May	4.10	4.22	0.97	1.45	1.84	2.40	2.87	3.32	3.78	4.28	4.86	5.61	6.77	7.83
June	5.11	5.02	1.02	2.02	2.49	3.16	3.72	4.24	4.78	5.35	6.02	6.87	8.16	9.35
July	3.58	2.75	1.30	0.90	1.24	1.76	2.22	2.67	3.15	3.69	4.32	5.15	6.45	7.67
August	4.52	3.93	1.15	1.53	1.95	2.58	3.11	3.62	4.14	4.71	5.38	6.23	7.55	8.74
September	3.76	2.47	1.52	0.85	1.20	1.75	2.24	2.74	3.27	3.86	4.56	5.49	6.96	8.35
October	2.05	1.30	1.58	0.19	0.33	0.61	0.89	1.20	1.56	1.98	2.50	3.23	4.43	5.61
November	1.54	1.46	1.05	0.17	0.29	0.50	0.72	0.95	1.20	1.50	1.87	2.38	3.22	4.03
December	0.90	1.78	0.51	0.14	0.21	0.34	0.47	0.60	0.74	0.90	1.10	1.37	1.80	2.21

TABLE 34 - Precipitation Probabilities for Climatic Divisions

Iowa South Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.21	2.07	0.59	0.23	0.33	0.51	0.68	0.84	1.03	1.23	1.48	1.81	2.34	2.85
February	1.06	2.64	0.40	0.26	0.35	0.51	0.65	0.78	0.93	1.09	1.28	1.53	1.93	2.30
March	2.25	2.90	0.78	0.59	0.81	1.13	1.42	1.70	1.99	2.32	2.71	3.21	4.00	4.73
April	2.97	4.12	0.72	1.04	1.32	1.73	2.07	2.40	2.74	3.11	3.54	4.09	4.94	5.72
May	3.97	5.35	0.74	1.63	1.99	2.50	2.93	3.32	3.73	4.16	4.66	5.30	6.27	7.15
June	4.88	4.19	1.16	1.72	2.18	2.85	3.41	3.95	4.50	5.10	5.80	6.69	8.07	9.34
July	3.35	3.13	1.07	0.95	1.26	1.74	2.16	2.57	3.00	3.47	4.03	4.75	5.88	6.94
August	4.19	3.77	1.11	1.37	1.77	2.35	2.85	3.33	3.82	4.36	5.00	5.81	7.07	8.22
September	3.78	1.87	2.01	0.62	0.94	1.49	2.01	2.54	3.13	3.79	4.60	5.68	7.42	9.07
October	2.15	1.36	1.58	0.21	0.37	0.66	0.96	1.29	1.65	2.09	2.63	3.36	4.59	5.79
November	1.90	1.64	1.16	0.26	0.41	0.68	0.95	1.23	1.53	1.89	2.32	2.91	3.88	4.80
December	1.20	2.38	0.51	0.26	0.37	0.55	0.71	0.87	1.04	1.23	1.46	1.76	2.25	2.70

Iowa Southeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.49	2.68	0.56	0.37	0.51	0.72	0.92	1.11	1.31	1.53	1.80	2.15	2.71	3.22
February	1.19	2.92	0.41	0.32	0.43	0.60	0.75	0.90	1.06	1.23	1.44	1.70	2.12	2.50
March	2.47	3.05	0.81	0.68	0.92	1.27	1.59	1.89	2.21	2.56	2.98	3.52	4.37	5.16
April	3.28	4.48	0.73	1.21	1.51	1.96	2.33	2.68	3.04	3.43	3.88	4.46	5.35	6.16
May	3.81	5.37	0.71	1.56	1.91	2.40	2.81	3.19	3.57	3.99	4.47	5.08	6.00	6.85
June	4.72	4.60	1.02	1.77	2.21	2.84	3.37	3.87	4.38	4.94	5.58	6.40	7.66	8.81
July	3.71	2.80	1.33	0.95	1.30	1.84	2.32	2.79	3.28	3.83	4.48	5.33	6.67	7.92
August	3.73	3.48	1.07	1.15	1.50	2.03	2.48	2.92	3.38	3.88	4.46	5.22	6.40	7.49
September	3.54	1.71	2.07	0.51	0.80	1.31	1.80	2.31	2.87	3.52	4.32	5.39	7.13	8.80
October	2.38	1.48	1.61	0.27	0.46	0.79	1.12	1.48	1.87	2.34	2.91	3.69	4.98	6.23
November	2.05	2.05	1.00	0.38	0.56	0.86	1.14	1.42	1.72	2.07	2.49	3.05	3.96	4.81
December	1.52	3.01	0.51	0.42	0.56	0.78	0.97	1.16	1.36	1.57	1.83	2.17	2.69	3.19

KENTUCKY
STATION LEGEND
Precipitation only
Precipitation-storage
Precipitation and Temperature
Pan evaporation, temperature and Evaporation
Type of gage
Non-recording
Recording
Both types
Double circle combinations indicate the existence of more detailed meteorological data
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29½° AND 45½°
STATUTE MILES
10 0 10 20 30 40
90TH MERIDIAN TIME ZONE
75TH MERIDIAN TIME ZONE
BLUE GRASS
EASTERN
CENTRAL
WESTERN
Cincinnati WB City, Ohio
Covington WB AP
Portsmouth, Ohio
Ashland
Huntington Fed Bldg, W. Va.
Louisville WB AP
Evansville WB AP, Ind
Lexington WB AP
Bowling Green WB City
Paducah WB City
Corbin
Pineville
Harlan
Hazard
Jackson
Morehead State College
Olive Hill
Grayson 3 SE
Louisa 2
Branchland, W. Va.
Kermit, W. Va.
Williamson, W. Va.
Frederick, W. Va.
Elkhorn City
Grundy 1 NW, Va.
Clinchco, Va.
Cumberland
Saint Paul, Va
Bristol, Va
Bristol WB AP, Tenn.
Pennington Gap, Va.
Cumberland Gap Park
Fourmile Ky Util Park
Middlesboro
Jeffersonville, Ind
Louisville Upper Gage
Louisville Anchorage
Leavenworth Dam 44, Ind.
Palmyra, Ind.
Madison Water Plant, Ind
Carrollton, Ky
Owenton 2 S
Lockport Lock 2
Frankfort Lock 4
Georgetown Water Works
Midway
Versailles
Paris 1 NNW
Sandy Hook 5 NE
Louisa 2
Smithfield 4 S
La Grange 1 ESE
Shelbyville
Eastwood
Salvisa Lock 6
Boonesboro
Ford Lock 10
Clay City 1 NNW
Mount Sterling
Mount Liberty
Townsend 1 NNW
Paintsville 1 S
Danville
Salyersville
Salyersville 2 SE
Dewey Dam
Meta
Martin
Pikeville
Wayland 2 SSE
Burdine 2 NE
Hazard Water Works
Jeremiah
Hyden
Buckhorn
Oneida
Whitley City
London 1 SW
London EAA AP
Somerset 2 NE
Monticello
Burkesville
Tompkinsville
Glasgow 1 SW
Russellville 2 SW
Hopkinsville
Princeton
Eddyville Dam
Kuttawa
Cadiz
Trigg City
Canton
Cerulean
Guthrie
Dawson Springs
Madisonville
Hartford 9 NW
Beaver Dam
Greenville
Central City
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TABLE 35 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Lexington, Kentucky

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.48	2.47	1.81	1.01	1.43	2.09	2.68	3.27	3.89	4.60	5.44	6.54	8.30	9.96
February	3.53	3.72	0.95	1.15	1.48	1.98	2.40	2.80	3.22	3.68	4.22	4.91	5.98	6.97
March	4.82	4.10	1.18	1.67	2.13	2.79	3.35	3.88	4.43	5.03	5.73	6.63	8.01	9.29
April	3.88	5.15	0.75	1.56	1.91	2.42	2.84	3.23	3.63	4.07	4.57	5.20	6.17	7.05
May	3.91	3.25	1.20	1.14	1.51	2.07	2.56	3.03	3.52	4.06	4.70	5.53	6.82	8.03
June	4.41	4.71	0.94	1.68	2.09	2.67	3.16	3.63	4.10	4.61	5.21	5.96	7.12	8.17
July	5.01	4.35	1.15	1.81	2.28	2.96	3.53	4.08	4.63	5.24	5.94	6.84	8.23	9.50
August	3.37	5.40	0.62	1.39	1.70	2.13	2.49	2.83	3.17	3.54	3.96	4.50	5.32	6.06
September	2.70	3.00	0.90	0.74	0.99	1.38	1.72	2.05	2.40	2.79	3.25	3.84	4.78	5.65
October	2.18	3.04	0.72	0.60	0.81	1.12	1.40	1.67	1.95	2.26	2.63	3.10	3.86	4.56
November	3.17	4.10	0.77	1.10	1.40	1.83	2.20	2.55	2.91	3.31	3.77	4.35	5.26	6.10
December	3.55	3.57	0.99	1.12	1.45	1.95	2.38	2.79	3.22	3.69	4.24	4.95	6.06	7.08

Division--Kentucky Blue Grass Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.37	2.90	1.51	1.15	1.57	2.20	2.75	3.30	3.87	4.51	5.26	6.24	7.77	9.18
February	3.56	3.24	1.10	1.04	1.37	1.88	2.32	2.75	3.20	3.70	4.28	5.03	6.22	7.31
March	4.97	4.96	1.00	1.95	2.41	3.06	3.60	4.11	4.63	5.19	5.84	6.66	7.92	9.04
April	3.87	7.13	0.54	1.83	2.17	2.63	3.00	3.35	3.69	4.06	4.48	5.01	5.81	6.52
May	3.90	4.67	0.83	1.47	1.84	2.36	2.79	3.20	3.62	4.08	4.60	5.27	6.30	7.24
June	4.33	5.68	0.76	1.83	2.22	2.77	3.23	3.65	4.08	4.54	5.07	5.73	6.75	7.67
July	4.70	10.30	0.46	2.58	2.95	3.44	3.83	4.19	4.55	4.92	5.34	5.86	6.64	7.33
August	3.53	7.10	0.50	1.67	1.98	2.40	2.74	3.05	3.37	3.71	4.09	4.57	5.30	5.96
September	2.99	4.32	0.69	1.07	1.36	1.76	2.10	2.43	2.76	3.12	3.54	4.08	4.91	5.67
October	2.24	3.09	0.72	0.62	0.84	1.16	1.44	1.71	2.00	2.32	2.69	3.18	3.94	4.65
November	3.17	4.30	0.74	1.14	1.43	1.86	2.23	2.57	2.92	3.31	3.76	4.33	5.21	6.02
December	3.26	3.80	0.86	1.07	1.38	1.84	2.22	2.60	2.98	3.40	3.89	4.52	5.50	6.39

TABLE 36 - Precipitation Probabilities for Climatic Divisions

Kentucky Western Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.69	2.18	2.15	0.92	1.35	2.03	2.67	3.30	3.99	4.77	5.71	6.95	8.94	10.82
February	3.92	2.82	1.39	1.01	1.38	1.95	2.45	2.94	3.46	4.04	4.73	5.62	7.02	8.33
March	5.44	4.07	1.33	1.88	2.39	3.14	3.77	4.38	5.00	5.68	6.47	7.48	9.04	10.48
April	4.09	8.77	0.47	2.11	2.45	2.90	3.27	3.60	3.93	4.28	4.68	5.18	5.92	6.57
May	4.13	4.42	0.94	1.51	1.90	2.45	2.92	3.37	3.82	4.32	4.89	5.63	6.76	7.80
June	3.86	3.42	1.13	1.17	1.54	2.09	2.56	3.01	3.49	4.01	4.62	5.41	6.65	7.79
July	3.97	6.59	0.60	1.81	2.16	2.64	3.04	3.40	3.77	4.16	4.61	5.18	6.03	6.80
August	3.37	5.32	0.63	1.38	1.68	2.12	2.48	2.82	3.16	3.53	3.96	4.50	5.33	6.08
September	3.25	2.93	1.11	0.87	1.17	1.64	2.06	2.46	2.88	3.35	3.91	4.63	5.76	6.80
October	2.46	2.60	0.95	0.59	0.82	1.18	1.50	1.82	2.15	2.53	2.98	3.57	4.50	5.38
November	3.69	3.49	1.06	1.14	1.49	2.01	2.46	2.89	3.34	3.84	4.42	5.16	6.33	7.41
December	3.69	4.24	0.87	1.31	1.66	2.16	2.59	2.99	3.40	3.86	4.38	5.05	6.09	7.05

Kentucky Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.82	2.40	2.01	1.06	1.50	2.21	2.85	3.49	4.17	4.93	5.85	7.06	8.99	10.80
February	3.91	2.72	1.44	0.97	1.34	1.91	2.41	2.91	3.44	4.03	4.73	5.64	7.08	8.43
March	5.31	4.89	1.09	2.07	2.56	3.26	3.84	4.39	4.95	5.56	6.26	7.15	8.50	9.72
April	3.95	8.32	0.48	2.00	2.33	2.78	3.14	3.47	3.80	4.14	4.54	5.04	5.78	6.44
May	3.98	3.96	1.01	1.35	1.72	2.27	2.74	3.19	3.65	4.15	4.73	5.48	6.63	7.67
June	4.28	4.02	1.06	1.47	1.87	2.46	2.96	3.44	3.93	4.47	5.09	5.90	7.14	8.28
July	4.28	6.96	0.61	2.00	2.37	2.89	3.30	3.68	4.07	4.48	4.95	5.53	6.41	7.19
August	3.43	6.24	0.55	1.52	1.83	2.25	2.60	2.92	3.25	3.60	4.00	4.50	5.27	5.96
September	3.10	3.62	0.85	0.98	1.28	1.71	2.09	2.44	2.82	3.22	3.70	4.32	5.27	6.16
October	2.41	2.98	0.81	0.65	0.88	1.23	1.53	1.83	2.14	2.48	2.89	3.42	4.25	5.00
November	3.51	4.19	0.84	1.24	1.57	2.05	2.45	2.84	3.24	3.67	4.17	4.82	5.81	6.72
December	3.77	3.91	0.97	1.27	1.62	2.15	2.59	3.01	3.45	3.93	4.49	5.20	6.30	7.30

TABLE 37 - Precipitation Probabilities for Climatic Divisions

Kentucky Eastern Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.36	4.12	1.06	1.52	1.93	2.53	3.04	3.52	4.02	4.56	5.19	5.99	7.24	8.39
February	4.05	3.97	1.02	1.37	1.76	2.32	2.79	3.24	3.71	4.22	4.81	5.57	6.73	7.79
March	4.89	7.10	0.69	2.31	2.73	3.32	3.79	4.22	4.66	5.13	5.66	6.33	7.34	8.24
April	3.79	8.29	0.46	1.91	2.23	2.66	3.00	3.32	3.64	3.97	4.35	4.83	5.54	6.18
May	3.90	4.96	0.79	1.53	1.89	2.40	2.83	3.23	3.64	4.08	4.59	5.24	6.22	7.10
June	4.28	8.25	0.52	2.15	2.51	3.00	3.39	3.75	4.10	4.48	4.91	5.45	6.26	6.98
July	4.93	9.30	0.53	2.60	3.00	3.54	3.97	4.36	4.75	5.17	5.63	6.21	7.08	7.85
August	3.68	7.58	0.49	1.79	2.10	2.54	2.88	3.20	3.52	3.86	4.25	4.73	5.46	6.11
September	2.85	7.30	0.39	1.37	1.61	1.95	2.22	2.47	2.72	2.99	3.30	3.68	4.26	4.78
October	2.27	2.42	0.94	0.50	0.71	1.05	1.35	1.65	1.97	2.33	2.76	3.33	4.23	5.08
November	3.20	4.28	0.75	1.14	1.45	1.88	2.25	2.60	2.95	3.34	3.80	4.38	5.27	6.09
December	3.57	4.17	0.85	1.25	1.59	2.08	2.49	2.88	3.28	3.72	4.24	4.89	5.90	6.83

LOUISIANA
NORTH-WEST
NORTH CENTRAL
NORTHEAST
WEST-CENTRAL
CENTRAL
EAST
SOUTHWEST
SOUTH CENTRAL
SOUTHEAST
NEW ORLEANS STATIONS
LAKE PONTCHARTRAIN
STATUTE MILES
10 0 10 20 30 40
90TH MERIDIAN TIME ZONE
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2° AND 45 1/2°

TABLE 38 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Baton Rouge, Louisiana

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.87	5.00	0.97	1.92	2.37	3.01	3.54	4.04	4.55	5.10	5.73	6.54	7.78	8.91
February	4.83	3.43	1.41	1.48	1.94	2.62	3.21	3.78	4.37	5.03	5.79	6.79	8.33	9.76
March	4.70	2.43	1.93	1.05	1.48	2.17	2.79	3.41	4.08	4.82	5.71	6.88	8.74	10.50
April	5.01	3.36	1.49	1.50	1.98	2.69	3.30	3.90	4.52	5.20	6.00	7.04	8.66	10.17
May	4.56	2.61	1.75	1.09	1.52	2.19	2.78	3.37	4.00	4.69	5.53	6.62	8.34	9.96
June	4.05	2.15	1.89	0.79	1.15	1.75	2.29	2.85	3.44	4.12	4.94	6.02	7.75	9.40
July	6.53	4.87	1.34	2.53	3.14	4.00	4.72	5.39	6.08	6.83	7.69	8.79	10.46	11.97
August	5.14	3.76	1.37	1.68	2.16	2.88	3.49	4.08	4.68	5.35	6.13	7.12	8.67	10.09
September	3.68	2.16	1.71	0.72	1.05	1.59	2.09	2.59	3.13	3.74	4.48	5.46	7.04	8.53
October	2.56	0.97	2.65	0.12	0.25	0.55	0.89	1.28	1.75	2.33	3.08	4.14	5.95	7.77
November	3.99	1.44	2.77	0.44	0.74	1.29	1.85	2.44	3.11	3.89	4.87	6.20	8.39	10.53
December	5.02	5.48	0.92	2.08	2.54	3.19	3.72	4.21	4.72	5.26	5.89	6.68	7.88	8.98

Division--Louisiana East Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.87	6.40	0.76	2.19	2.62	3.22	3.71	4.16	4.62	5.11	5.67	6.38	7.45	8.41
February	4.94	6.01	0.82	2.15	2.60	3.22	3.72	4.20	4.67	5.18	5.77	6.51	7.64	8.66
March	5.91	3.03	1.95	1.63	2.19	3.04	3.79	4.51	5.28	6.12	7.12	8.42	10.46	12.37
April	5.26	5.20	1.01	2.12	2.60	3.29	3.85	4.38	4.92	5.51	6.18	7.03	8.34	9.53
May	5.17	3.45	1.50	1.59	2.08	2.81	3.44	4.05	4.68	5.38	6.20	7.26	8.90	10.43
June	4.94	3.16	1.56	1.41	1.88	2.59	3.20	3.80	4.43	5.12	5.94	7.00	8.67	10.22
July	6.67	8.18	0.82	3.35	3.91	4.67	5.28	5.84	6.40	6.99	7.67	8.51	9.78	10.91
August	5.31	8.27	0.64	2.68	3.12	3.73	4.21	4.66	5.10	5.57	6.10	6.77	7.77	8.67
September	4.28	2.73	1.57	1.07	1.47	2.10	2.65	3.19	3.77	4.41	5.17	6.17	7.74	9.20
October	2.80	1.34	2.09	0.27	0.47	0.85	1.24	1.66	2.14	2.70	3.41	4.38	5.99	7.57
November	4.11	1.88	2.18	0.67	1.03	1.63	2.19	2.77	3.40	4.13	5.01	6.18	8.07	9.86
December	5.67	5.32	1.07	2.31	2.83	3.57	4.17	4.74	5.32	5.94	6.66	7.57	8.96	10.23

TABLE 39 - Precipitation Probabilities for Climatic Divisions

Louisiana Northwest Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.19	3.70	1.40	1.68	2.17	2.89	3.51	4.11	4.73	5.40	6.19	7.21	8.79	10.24
February	4.42	4.77	0.93	1.70	2.11	2.69	3.18	3.65	4.12	4.63	5.22	5.97	7.12	8.17
March	4.45	6.15	0.72	1.96	2.36	2.92	3.37	3.79	4.21	4.67	5.19	5.85	6.85	7.76
April	4.97	4.54	1.09	1.85	2.31	2.98	3.54	4.07	4.61	5.20	5.89	6.76	8.10	9.32
May	5.02	3.42	1.47	1.53	2.00	2.72	3.33	3.92	4.54	5.22	6.02	7.05	8.66	10.15
June	3.18	1.33	2.39	0.30	0.53	0.96	1.40	1.89	2.43	3.07	3.88	4.98	6.82	8.62
July	3.96	2.56	1.55	0.93	1.30	1.88	2.40	2.92	3.46	4.07	4.80	5.76	7.28	8.70
August	2.99	2.46	1.22	0.67	0.95	1.39	1.78	2.18	2.59	3.06	3.63	4.37	5.54	6.65
September	2.63	2.12	1.24	0.50	0.74	1.12	1.48	1.84	2.23	2.67	3.20	3.91	5.04	6.12
October	2.78	1.32	2.11	0.26	0.46	0.83	1.22	1.64	2.12	2.68	3.39	4.36	5.98	7.57
November	4.60	2.43	1.89	1.02	1.45	2.12	2.73	3.34	3.99	4.71	5.58	6.73	8.55	10.27
December	5.13	3.01	1.70	1.40	1.89	2.63	3.28	3.91	4.58	5.31	6.18	7.32	9.09	10.75

Louisiana North Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.80	4.32	1.34	2.09	2.63	3.42	4.08	4.71	5.36	6.06	6.88	7.92	9.53	11.01
February	4.91	5.37	0.91	2.02	2.47	3.10	3.62	4.11	4.61	5.15	5.77	6.55	7.75	8.83
March	4.91	9.20	0.53	2.58	2.98	3.52	3.95	4.34	4.73	5.15	5.61	6.19	7.06	7.84
April	5.15	4.75	1.08	1.97	2.45	3.13	3.70	4.24	4.79	5.39	6.08	6.96	8.30	9.52
May	5.18	4.08	1.27	1.79	2.28	2.99	3.59	4.17	4.76	5.41	6.16	7.12	8.62	9.99
June	3.98	2.02	1.98	0.71	1.07	1.65	2.19	2.75	3.35	4.03	4.86	5.96	7.73	9.43
July	5.02	3.33	1.51	1.49	1.97	2.69	3.30	3.90	4.53	5.21	6.02	7.07	8.71	10.22
August	3.21	3.47	0.93	0.99	1.29	1.75	2.14	2.52	2.91	3.34	3.85	4.51	5.53	6.47
September	2.93	1.91	1.53	0.49	0.74	1.17	1.57	1.98	2.43	2.94	3.56	4.39	5.72	6.97
October	2.82	1.16	2.43	0.20	0.38	0.74	1.13	1.56	2.06	2.66	3.42	4.48	6.26	8.02
November	4.47	2.44	1.83	1.00	1.41	2.07	2.66	3.25	3.87	4.58	5.42	6.53	8.30	9.96
December	5.48	3.61	1.52	1.74	2.26	3.03	3.69	4.33	4.98	5.71	6.56	7.65	9.34	10.91

TABLE 40 - Precipitation Probabilities for Climatic Divisions

Louisiana Northeast Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.60	3.59	1.56	1.77	2.30	3.09	3.76	4.41	5.09	5.83	6.69	7.81	9.55	11.16
February	5.28	4.44	1.19	1.93	2.43	3.14	3.74	4.30	4.89	5.52	6.25	7.19	8.63	9.95
March	5.51	11.53	0.48	3.14	3.56	4.12	4.56	4.96	5.35	5.77	6.23	6.81	7.66	8.42
April	4.97	3.62	1.37	1.58	2.05	2.75	3.35	3.93	4.52	5.18	5.95	6.94	8.47	9.89
May	4.61	3.60	1.28	1.46	1.90	2.55	3.10	3.64	4.19	4.80	5.51	6.43	7.86	9.18
June	3.77	2.59	1.45	0.90	1.25	1.80	2.29	2.78	3.30	3.88	4.57	5.47	6.90	8.25
July	4.59	3.06	1.50	1.27	1.71	2.37	2.95	3.51	4.10	4.76	5.53	6.54	8.12	9.59
August	3.15	3.13	1.01	0.89	1.19	1.64	2.03	2.42	2.82	3.26	3.79	4.47	5.53	6.52
September	2.61	1.80	1.45	0.40	0.62	1.00	1.36	1.74	2.14	2.61	3.18	3.95	5.19	6.37
October	2.37	1.10	2.16	0.15	0.30	0.59	0.92	1.28	1.71	2.22	2.88	3.79	5.34	6.88
November	4.67	1.74	2.69	0.69	1.08	1.75	2.40	3.07	3.81	4.66	5.70	7.10	9.37	11.55
December	5.37	4.57	1.18	2.01	2.51	3.23	3.83	4.40	4.99	5.62	6.36	7.30	8.74	10.05

Louisiana West Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.42	4.19	1.29	1.91	2.42	3.17	3.79	4.39	5.00	5.67	6.44	7.44	8.98	10.39
February	4.77	4.40	1.08	1.74	2.18	2.83	3.37	3.88	4.41	4.98	5.65	6.50	7.81	9.01
March	4.57	6.71	0.68	2.11	2.51	3.06	3.51	3.93	4.35	4.80	5.31	5.95	6.92	7.80
April	5.13	2.71	1.89	1.27	1.76	2.50	3.17	3.82	4.51	5.29	6.20	7.40	9.29	11.06
May	5.57	2.52	2.21	1.29	1.80	2.62	3.35	4.08	4.85	5.72	6.75	8.11	10.26	12.29
June	4.07	1.20	3.38	0.32	0.58	1.11	1.67	2.30	3.01	3.86	4.94	6.44	8.94	11.42
July	4.60	3.23	1.43	1.34	1.78	2.43	3.00	3.56	4.14	4.78	5.53	6.51	8.04	9.46
August	3.57	2.84	1.26	0.93	1.26	1.78	2.24	2.69	3.16	3.69	4.31	5.12	6.40	7.58
September	3.19	2.18	1.46	0.63	0.92	1.39	1.82	2.25	2.72	3.25	3.89	4.73	6.09	7.37
October	2.89	1.02	2.82	0.16	0.32	0.66	1.05	1.49	2.02	2.66	3.48	4.64	6.61	8.58
November	4.70	2.01	2.34	0.84	1.26	1.94	2.59	3.24	3.95	4.76	5.74	7.04	9.14	11.15
December	5.34	4.28	1.25	1.91	2.41	3.14	3.75	4.33	4.93	5.58	6.34	7.31	8.80	10.17

TABLE 41 - Precipitation Probabilities for Climatic Divisions

Louisiana Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.64	5.11	1.10	2.25	2.77	3.51	4.12	4.69	5.27	5.91	6.63	7.56	8.97	10.26
February	4.91	5.43	0.90	2.03	2.47	3.10	3.62	4.11	4.61	5.14	5.75	6.53	7.72	8.80
March	5.28	4.83	1.09	2.04	2.53	3.22	3.80	4.35	4.91	5.52	6.22	7.11	8.47	9.70
April	5.32	4.13	1.29	1.86	2.36	3.09	3.70	4.29	4.90	5.56	6.32	7.31	8.83	10.22
May	5.83	2.84	2.05	1.51	2.06	2.91	3.65	4.39	5.16	6.01	7.03	8.35	10.43	12.35
June	4.54	2.58	1.76	1.07	1.50	2.16	2.75	3.34	3.97	4.66	5.50	6.59	8.32	9.94
July	5.55	5.55	1.00	2.32	2.83	3.54	4.12	4.67	5.22	5.82	6.50	7.37	8.70	9.90
August	4.44	3.53	1.26	1.38	1.81	2.43	2.97	3.49	4.03	4.62	5.31	6.20	7.60	8.89
September	3.64	3.01	1.21	0.99	1.34	1.86	2.32	2.77	3.24	3.76	4.38	5.18	6.45	7.62
October	2.99	1.48	2.03	0.34	0.57	0.99	1.41	1.85	2.35	2.94	3.66	4.64	6.26	7.84
November	4.60	2.01	2.29	0.82	1.23	1.90	2.53	3.17	3.87	4.66	5.61	6.89	8.94	10.90
December	5.75	6.93	0.83	2.68	3.18	3.87	4.43	4.95	5.47	6.02	6.65	7.44	8.63	9.68

Louisiana Southwest Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.24	4.52	1.16	1.94	2.43	3.14	3.72	4.28	4.86	5.48	6.20	7.12	8.54	9.83
February	4.58	4.38	1.04	1.66	2.09	2.71	3.23	3.73	4.23	4.78	5.42	6.24	7.50	8.66
March	4.27	2.94	1.45	1.14	1.54	2.16	2.70	3.23	3.79	4.40	5.13	6.08	7.56	8.93
April	4.41	4.09	1.08	1.53	1.95	2.55	3.06	3.55	4.05	4.60	5.24	6.06	7.33	8.49
May	5.35	2.35	2.28	1.15	1.64	2.42	3.13	3.85	4.61	5.47	6.50	7.85	10.02	12.07
June	4.79	1.81	2.65	0.74	1.15	1.84	2.50	3.19	3.93	4.79	5.84	7.23	9.50	11.66
July	6.59	5.29	1.24	2.68	3.29	4.14	4.84	5.51	6.18	6.91	7.74	8.80	10.42	11.90
August	5.46	3.62	1.51	1.73	2.25	3.02	3.67	4.31	4.96	5.68	6.52	7.61	9.29	10.85
September	4.42	2.98	1.49	1.20	1.61	2.25	2.81	3.36	3.93	4.57	5.32	6.29	7.81	9.20
October	3.16	1.40	2.26	0.33	0.56	1.00	1.44	1.92	2.45	3.08	3.86	4.93	6.70	8.43
November	4.53	2.69	1.68	1.12	1.54	2.20	2.79	3.37	3.98	4.66	5.48	6.54	8.22	9.79
December	5.46	6.48	0.84	2.47	2.95	3.62	4.16	4.67	5.18	5.72	6.35	7.13	8.32	9.39

TABLE 42 - Precipitation Probabilities for Climatic Divisions

Louisiana South Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.58	4.76	0.96	1.75	2.18	2.79	3.29	3.77	4.26	4.79	5.40	6.18	7.38	8.46
February	4.61	5.01	0.92	1.82	2.24	2.85	3.35	3.82	4.30	4.82	5.43	6.19	7.36	8.43
March	4.67	1.98	2.36	0.82	1.23	1.91	2.55	3.20	3.90	4.70	5.67	6.96	9.03	10.96
April	4.55	6.16	0.74	2.01	2.42	2.98	3.44	3.87	4.31	4.77	5.31	5.98	7.00	7.92
May	4.80	3.88	1.24	1.60	2.06	2.73	3.29	3.83	4.39	5.00	5.72	6.63	8.04	9.32
June	5.44	3.44	1.58	1.66	2.18	2.95	3.61	4.26	4.92	5.66	6.52	7.63	9.37	10.98
July	7.60	7.98	0.95	3.77	4.42	5.29	5.99	6.63	7.28	7.96	8.73	9.70	11.14	12.41
August	6.44	5.53	1.16	2.69	3.27	4.10	4.77	5.41	6.05	6.75	7.55	8.56	10.10	11.49
September	5.35	3.30	1.62	1.58	2.09	2.85	3.51	4.15	4.82	5.55	6.42	7.54	9.29	10.92
October	2.98	1.30	2.29	0.27	0.48	0.88	1.29	1.75	2.26	2.87	3.63	4.68	6.43	8.14
November	4.02	1.85	2.17	0.65	0.99	1.57	2.13	2.70	3.32	4.03	4.90	6.06	7.93	9.71
December	5.28	6.18	0.85	2.33	2.80	3.46	3.99	4.49	4.99	5.53	6.15	6.93	8.11	9.18

Louisiana Southeast Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.26	4.69	0.91	1.61	2.01	2.58	3.05	3.50	3.96	4.45	5.03	5.76	6.88	7.90
February	4.51	4.19	1.08	1.59	2.01	2.63	3.15	3.65	4.16	4.71	5.36	6.18	7.46	8.63
March	5.14	2.33	2.20	1.09	1.56	2.32	3.00	3.69	4.42	5.25	6.24	7.55	9.64	11.61
April	4.72	4.64	1.02	1.78	2.22	2.85	3.38	3.87	4.38	4.94	5.58	6.39	7.65	8.79
May	4.69	3.53	1.33	1.46	1.91	2.57	3.14	3.69	4.26	4.88	5.62	6.56	8.04	9.40
June	5.26	3.31	1.59	1.56	2.06	2.81	3.45	4.08	4.74	5.46	6.31	7.41	9.13	10.73
July	7.52	12.21	0.62	4.36	4.92	5.67	6.26	6.79	7.31	7.86	8.48	9.24	10.37	11.37
August	6.66	9.03	0.74	3.48	4.03	4.76	5.35	5.89	6.42	6.99	7.63	8.42	9.62	10.68
September	6.63	4.20	1.58	2.34	2.97	3.87	4.64	5.37	6.11	6.93	7.88	9.09	10.97	12.69
October	3.30	1.29	2.56	0.30	0.53	0.97	1.43	1.93	2.50	3.17	4.02	5.19	7.14	9.06
November	3.92	1.68	2.33	0.55	0.87	1.43	1.98	2.55	3.17	3.89	4.78	5.98	7.92	9.80
December	4.75	5.30	0.90	1.94	2.37	2.99	3.50	3.97	4.46	4.98	5.58	6.35	7.52	8.58

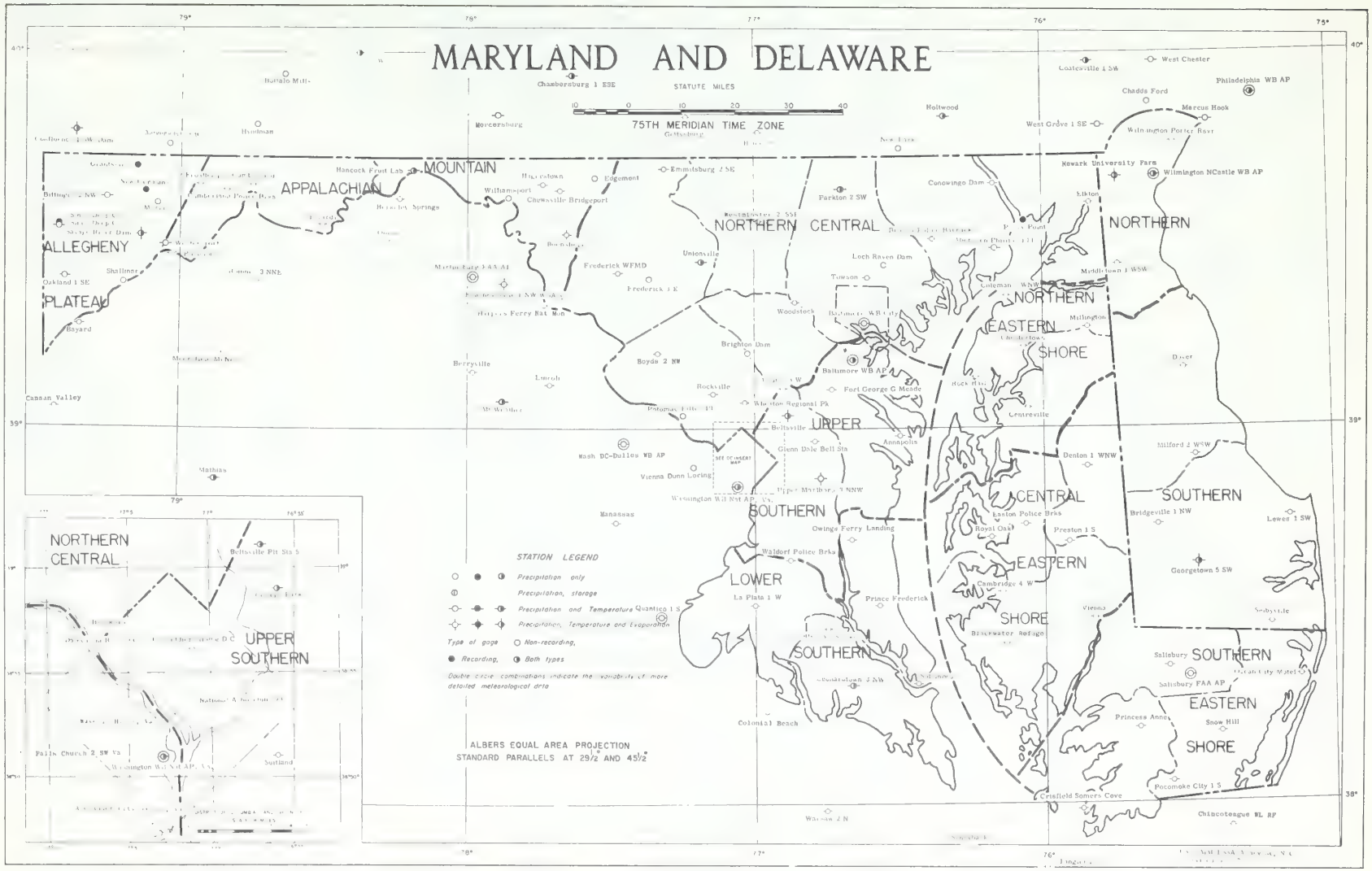
MARYLAND AND DELAWARE
STATUTE MILES
10 0 10 20 30 40
75TH MERIDIAN TIME ZONE
MOUNTAIN
APPALACHIAN
ALLEGHENY
PLATEAU
NORTHERN CENTRAL
NORTHERN
NORTHERN EASTERN SHORE
UPPER
SOUTHERN
CENTRAL
SOUTHERN
LOWER
EASTERN SHORE
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording,
Both types
Double circle combinations indicate the availability of more detailed meteorological data
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29½ AND 45½°
NORTHERN CENTRAL
UPPER SOUTHERN

TABLE 43 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Baltimore, Maryland

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.37	4.01	0.84	1.15	1.47	1.94	2.33	2.70	3.09	3.51	4.01	4.64	5.62	6.52
February	3.08	6.56	0.47	1.40	1.67	2.05	2.35	2.64	2.92	3.23	3.58	4.02	4.69	5.28
March	3.93	6.31	0.62	1.75	2.10	2.59	2.98	3.35	3.72	4.12	4.57	5.15	6.02	6.80
April	3.69	4.13	0.89	1.29	1.64	2.14	2.57	2.98	3.40	3.86	4.39	5.07	6.13	7.10
May	3.83	4.22	0.91	1.36	1.72	2.24	2.68	3.10	3.53	4.00	4.55	5.25	6.33	7.32
June	3.76	2.72	1.39	0.94	1.29	1.84	2.32	2.80	3.31	3.88	4.55	5.43	6.81	8.11
July	4.06	2.80	1.45	1.04	1.42	2.01	2.53	3.05	3.59	4.19	4.90	5.83	7.30	8.66
August	4.28	1.95	2.19	0.74	1.11	1.74	2.32	2.92	3.57	4.31	5.21	6.40	8.32	10.12
September	3.43	1.99	1.73	0.60	0.91	1.41	1.87	2.35	2.87	3.46	4.17	5.12	6.63	8.04
October	2.98	1.94	1.54	0.51	0.77	1.21	1.61	2.03	2.49	3.00	3.63	4.46	5.80	7.06
November	3.21	2.51	1.28	0.74	1.04	1.51	1.93	2.35	2.80	3.30	3.90	4.68	5.93	7.11
December	3.13	3.43	0.91	0.95	1.25	1.70	2.08	2.45	2.83	3.25	3.75	4.39	5.39	6.32

Division--Maryland Upper Southern Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.24	4.26	0.76	1.16	1.46	1.90	2.27	2.63	2.99	3.39	3.85	4.44	5.34	6.18
February	2.81	7.99	0.35	1.40	1.63	1.96	2.21	2.45	2.69	2.94	3.23	3.58	4.12	4.58
March	3.76	6.14	0.61	1.65	1.99	2.46	2.84	3.20	3.55	3.94	4.38	4.94	5.78	6.55
April	3.39	4.51	0.75	1.26	1.57	2.03	2.41	2.78	3.15	3.55	4.02	4.61	5.53	6.37
May	3.80	4.34	0.88	1.37	1.73	2.25	2.68	3.09	3.51	3.97	4.51	5.19	6.25	7.21
June	3.72	4.98	0.75	1.46	1.80	2.29	2.70	3.08	3.47	3.89	4.37	4.99	5.92	6.76
July	4.07	4.26	0.96	1.45	1.84	2.39	2.86	3.30	3.76	4.26	4.83	5.57	6.71	7.76
August	4.85	2.95	1.64	1.30	1.76	2.46	3.08	3.68	4.31	5.01	5.84	6.91	8.59	10.13
September	3.62	2.57	1.41	0.86	1.19	1.72	2.20	2.67	3.17	3.72	4.39	5.26	6.64	7.94
October	2.97	1.89	1.57	0.49	0.75	1.18	1.59	2.00	2.46	2.98	3.61	4.45	5.81	7.10
November	3.13	2.57	1.22	0.74	1.03	1.49	1.90	2.30	2.74	3.22	3.79	4.55	5.75	6.87
December	2.90	3.51	0.83	0.90	1.18	1.59	1.94	2.28	2.63	3.02	3.48	4.06	4.98	5.83

TABLE 44 - Precipitation Probabilities for

TABLE 44 - Precipitation Probabilities for Climatic Divisions

Maryland Southern Eastern Shore Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.65	5.59	0.65	1.53	1.86	2.33	2.71	3.07	3.43	3.82	4.27	4.84	5.71	6.49
February	3.32	5.98	0.56	1.44	1.74	2.16	2.50	2.81	3.13	3.48	3.87	4.36	5.11	5.77
March	4.28	7.92	0.54	2.12	2.48	2.97	3.37	3.73	4.09	4.48	4.92	5.46	6.28	7.00
April	3.36	6.27	0.54	1.50	1.80	2.21	2.55	2.87	3.19	3.53	3.92	4.41	5.16	5.83
May	3.38	2.55	1.32	0.79	1.10	1.60	2.04	2.48	2.95	3.47	4.09	4.91	6.20	7.42
June	3.53	4.76	0.74	1.35	1.68	2.15	2.54	2.91	3.28	3.69	4.16	4.76	5.68	6.52
July	4.48	4.00	1.12	1.53	1.95	2.57	3.09	3.60	4.11	4.67	5.33	6.17	7.48	8.68
August	5.20	3.87	1.34	1.74	2.23	2.95	3.56	4.15	4.76	5.42	6.19	7.18	8.71	10.11
September	4.22	3.43	1.23	1.29	1.69	2.29	2.80	3.30	3.82	4.39	5.06	5.93	7.28	8.54
October	3.43	3.27	1.05	1.01	1.33	1.82	2.24	2.65	3.08	3.56	4.11	4.84	5.96	7.01
November	3.33	2.98	1.12	0.90	1.22	1.70	2.11	2.53	2.96	3.43	4.00	4.73	5.87	6.92
December	3.12	4.69	0.67	1.18	1.48	1.89	2.24	2.57	2.90	3.27	3.69	4.23	5.05	5.80

Maryland Central Eastern Shore Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.53	4.87	0.72	1.37	1.69	2.16	2.55	2.91	3.29	3.69	4.15	4.74	5.65	6.46
February	3.05	7.83	0.39	1.50	1.76	2.11	2.40	2.66	2.92	3.19	3.51	3.90	4.49	5.01
March	3.98	7.41	0.54	1.91	2.26	2.72	3.10	3.45	3.80	4.17	4.59	5.12	5.92	6.64
April	3.40	6.40	0.53	1.53	1.83	2.25	2.59	2.91	3.23	3.57	3.96	4.45	5.20	5.88
May	3.71	3.17	1.17	1.06	1.41	1.94	2.40	2.85	3.32	3.84	4.46	5.25	6.50	7.66
June	3.60	6.34	0.57	1.61	1.93	2.37	2.74	3.07	3.41	3.77	4.19	4.71	5.51	6.23
July	4.65	3.77	1.23	1.52	1.97	2.62	3.17	3.70	4.25	4.85	5.55	6.45	7.85	9.13
August	4.88	2.07	2.36	0.91	1.34	2.06	2.72	3.40	4.13	4.95	5.95	7.28	9.42	11.45
September	3.97	2.65	1.50	0.96	1.33	1.91	2.43	2.94	3.48	4.08	4.80	5.74	7.22	8.61
October	3.07	2.94	1.04	0.82	1.11	1.56	1.94	2.33	2.73	3.17	3.69	4.37	5.44	6.42
November	3.53	3.10	1.14	0.99	1.33	1.83	2.28	2.71	3.16	3.66	4.25	5.02	6.22	7.34
December	3.11	4.49	0.69	1.15	1.44	1.86	2.21	2.54	2.88	3.25	3.68	4.23	5.07	5.84

TABLE 45 - Precipitation Probability Values for Climatic Divisions

Maryland Lower Southern Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.50	4.43	0.79	1.28	1.61	2.08	2.48	2.86	3.24	3.66	4.15	4.77	5.73	6.61
February	2.93	6.95	0.42	1.37	1.63	1.98	2.26	2.52	2.79	3.07	3.39	3.79	4.40	4.93
March	3.73	6.68	0.56	1.71	2.04	2.50	2.86	3.21	3.55	3.92	4.34	4.86	5.66	6.37
April	3.46	5.04	0.69	1.37	1.69	2.14	2.52	2.87	3.24	3.63	4.08	4.65	5.53	6.32
May	3.67	3.05	1.20	1.01	1.36	1.89	2.35	2.81	3.28	3.80	4.42	5.23	6.49	7.67
June	3.63	6.75	0.54	1.67	1.99	2.43	2.79	3.12	3.45	3.80	4.21	4.72	5.49	6.18
July	4.72	4.34	1.09	1.70	2.14	2.79	3.32	3.83	4.36	4.93	5.59	6.44	7.75	8.95
August	4.88	2.89	1.69	1.28	1.74	2.45	3.07	3.68	4.32	5.03	5.87	6.97	8.68	10.27
September	3.83	2.00	1.91	0.68	1.02	1.58	2.10	2.64	3.22	3.87	4.67	5.73	7.45	9.08
October	3.20	2.98	1.07	0.86	1.17	1.63	2.03	2.43	2.84	3.30	3.84	4.54	5.64	6.65
November	3.28	2.83	1.16	0.85	1.16	1.63	2.05	2.47	2.90	3.38	3.95	4.70	5.87	6.96
December	3.06	3.95	0.77	1.04	1.33	1.75	2.11	2.45	2.80	3.19	3.64	4.21	5.10	5.90

Maryland Upper Southern Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.24	4.26	0.76	1.16	1.46	1.90	2.27	2.63	2.99	3.39	3.85	4.44	5.34	6.18
February	2.81	7.99	0.35	1.40	1.63	1.96	2.21	2.45	2.69	2.94	3.23	3.58	4.12	4.58
March	3.76	6.14	0.61	1.65	1.99	2.46	2.84	3.20	3.55	3.94	4.38	4.94	5.78	6.55
April	3.39	4.51	0.75	1.26	1.57	2.03	2.41	2.78	3.15	3.55	4.02	4.61	5.53	6.37
May	3.80	4.34	0.88	1.37	1.73	2.25	2.68	3.09	3.51	3.97	4.51	5.19	6.25	7.21
June	3.72	4.98	0.75	1.46	1.80	2.29	2.70	3.08	3.47	3.89	4.37	4.99	5.92	6.76
July	4.07	4.26	0.96	1.45	1.84	2.39	2.86	3.30	3.76	4.26	4.83	5.57	6.71	7.76
August	4.85	2.95	1.64	1.30	1.76	2.46	3.08	3.68	4.31	5.01	5.84	6.91	8.59	10.13
September	3.62	2.57	1.41	0.86	1.19	1.72	2.20	2.67	3.17	3.72	4.39	5.26	6.64	7.94
October	2.97	1.89	1.57	0.49	0.75	1.18	1.59	2.00	2.46	2.98	3.61	4.45	5.81	7.10
November	3.13	2.57	1.22	0.74	1.03	1.49	1.90	2.30	2.74	3.22	3.79	4.55	5.75	6.87
December	2.90	3.51	0.83	0.90	1.18	1.59	1.94	2.28	2.63	3.02	3.48	4.06	4.98	5.83

TABLE 46 - Precipitation Probabilities for Climatic Divisions

Maryland Northern Eastern Shore Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.54	4.20	0.84	1.25	1.58	2.07	2.47	2.86	3.26	3.69	4.20	4.85	5.85	6.76
February	2.97	10.31	0.29	1.63	1.86	2.18	2.42	2.65	2.87	3.11	3.38	3.71	4.20	4.63
March	3.93	7.71	0.51	1.93	2.26	2.72	3.08	3.42	3.76	4.12	4.53	5.04	5.81	6.50
April	3.39	4.65	0.73	1.28	1.59	2.05	2.43	2.78	3.15	3.55	4.01	4.59	5.49	6.31
May	3.80	4.09	0.93	1.32	1.68	2.20	2.64	3.07	3.50	3.97	4.52	5.23	6.33	7.33
June	3.44	4.29	0.80	1.23	1.55	2.02	2.41	2.79	3.17	3.59	4.08	4.70	5.66	6.54
July	4.22	4.76	0.89	1.61	2.01	2.57	3.03	3.48	3.93	4.42	4.98	5.70	6.80	7.80
August	4.48	2.97	1.51	1.21	1.63	2.28	2.84	3.40	3.98	4.63	5.39	6.38	7.92	9.33
September	3.53	2.38	1.49	0.77	1.09	1.61	2.08	2.55	3.05	3.61	4.29	5.18	6.60	7.94
October	2.77	3.03	0.91	0.76	1.02	1.42	1.77	2.11	2.47	2.86	3.33	3.94	4.89	5.79
November	3.37	3.17	1.06	0.96	1.28	1.77	2.19	2.60	3.03	3.50	4.06	4.78	5.91	6.97
December	3.09	4.28	0.72	1.10	1.39	1.81	2.17	2.50	2.85	3.23	3.66	4.22	5.09	5.88

Maryland Northern Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.24	4.98	0.65	1.27	1.57	2.00	2.35	2.68	3.02	3.39	3.81	4.35	5.16	5.89
February	2.83	9.41	0.30	1.50	1.73	2.04	2.28	2.51	2.73	2.96	3.23	3.56	4.06	4.50
March	3.86	8.23	0.47	1.94	2.27	2.71	3.06	3.38	3.71	4.05	4.44	4.93	5.66	6.31
April	3.57	5.04	0.71	1.41	1.74	2.21	2.60	2.97	3.34	3.74	4.20	4.79	5.70	6.52
May	3.87	4.44	0.87	1.42	1.78	2.31	2.74	3.16	3.59	4.05	4.59	5.27	6.33	7.30
June	3.79	6.18	0.61	1.67	2.01	2.48	2.87	3.22	3.58	3.97	4.42	4.97	5.82	6.59
July	4.08	5.58	0.73	1.71	2.08	2.60	3.03	3.43	3.83	4.27	4.78	5.41	6.38	7.26
August	4.38	3.71	1.18	1.42	1.83	2.44	2.97	3.47	3.99	4.56	5.23	6.09	7.42	8.64
September	3.54	3.51	1.01	1.10	1.43	1.93	2.36	2.78	3.21	3.68	4.23	4.95	6.07	7.10
October	3.11	2.72	1.14	0.78	1.07	1.52	1.92	2.32	2.74	3.21	3.76	4.49	5.63	6.70
November	3.27	3.23	1.01	0.95	1.26	1.73	2.13	2.53	2.94	3.39	3.93	4.62	5.71	6.72
December	3.11	3.61	0.86	0.99	1.28	1.72	2.09	2.45	2.83	3.24	3.72	4.34	5.30	6.19

TABLE 47 - Precipitation Probabilities for Climatic Divisions

Maryland Appalachian Mountain Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.76	4.84	0.57	1.07	1.32	1.69	1.99	2.28	2.57	2.89	3.25	3.72	4.43	5.07
February	2.39	4.98	0.48	0.94	1.16	1.48	1.74	1.98	2.23	2.50	2.81	3.21	3.81	4.34
March	3.66	5.73	0.64	1.56	1.89	2.35	2.73	3.09	3.45	3.84	4.28	4.84	5.70	6.47
April	3.38	5.22	0.65	1.36	1.67	2.11	2.47	2.82	3.16	3.54	3.97	4.52	5.35	6.11
May	3.69	4.56	0.81	1.37	1.72	2.21	2.63	3.02	3.42	3.86	4.36	5.01	6.00	6.90
June	3.72	9.90	0.38	2.01	2.31	2.71	3.02	3.31	3.60	3.90	4.24	4.66	5.28	5.83
July	3.54	7.76	0.46	1.74	2.04	2.45	2.78	3.08	3.38	3.71	4.07	4.53	5.22	5.83
August	3.72	5.46	0.68	1.54	1.88	2.36	2.75	3.12	3.50	3.90	4.36	4.95	5.85	6.66
September	3.03	3.87	0.78	1.01	1.30	1.72	2.07	2.42	2.77	3.16	3.61	4.18	5.07	5.89
October	2.87	2.15	1.34	0.56	0.82	1.24	1.63	2.02	2.44	2.92	3.50	4.27	5.50	6.67
November	2.59	3.93	0.66	0.87	1.12	1.48	1.78	2.07	2.37	2.70	3.08	3.57	4.32	5.00
December	2.59	3.68	0.70	0.83	1.08	1.44	1.75	2.05	2.36	2.70	3.10	3.61	4.40	5.13

Maryland Allegheny Plateau Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.90	5.84	0.67	1.67	2.02	2.52	2.92	3.29	3.67	4.08	4.55	5.14	6.04	6.84
February	3.31	8.39	0.39	1.68	1.96	2.33	2.63	2.91	3.18	3.47	3.80	4.21	4.83	5.39
March	4.47	8.95	0.50	2.32	2.69	3.18	3.58	3.94	4.30	4.68	5.10	5.64	6.43	7.12
April	4.14	8.91	0.46	2.15	2.49	2.95	3.31	3.65	3.98	4.33	4.73	5.23	5.96	6.61
May	4.26	5.51	0.77	1.77	2.16	2.71	3.16	3.58	4.01	4.47	5.00	5.67	6.69	7.61
June	4.51	7.19	0.63	2.14	2.54	3.07	3.50	3.91	4.31	4.74	5.22	5.84	6.76	7.59
July	4.52	7.41	0.61	2.18	2.57	3.10	3.53	3.93	4.32	4.75	5.23	5.83	6.74	7.56
August	4.20	4.66	0.90	1.59	1.98	2.54	3.01	3.45	3.90	4.39	4.96	5.69	6.80	7.82
September	3.20	3.92	0.82	1.07	1.38	1.82	2.19	2.55	2.92	3.33	3.80	4.41	5.34	6.18
October	3.00	2.63	1.14	0.72	1.01	1.44	1.83	2.22	2.63	3.09	3.63	4.35	5.47	6.53
November	3.00	7.89	0.38	1.48	1.74	2.08	2.36	2.62	2.87	3.14	3.45	3.84	4.41	4.92
December	3.39	5.50	0.62	1.41	1.72	2.15	2.51	2.85	3.19	3.55	3.98	4.51	5.33	6.06

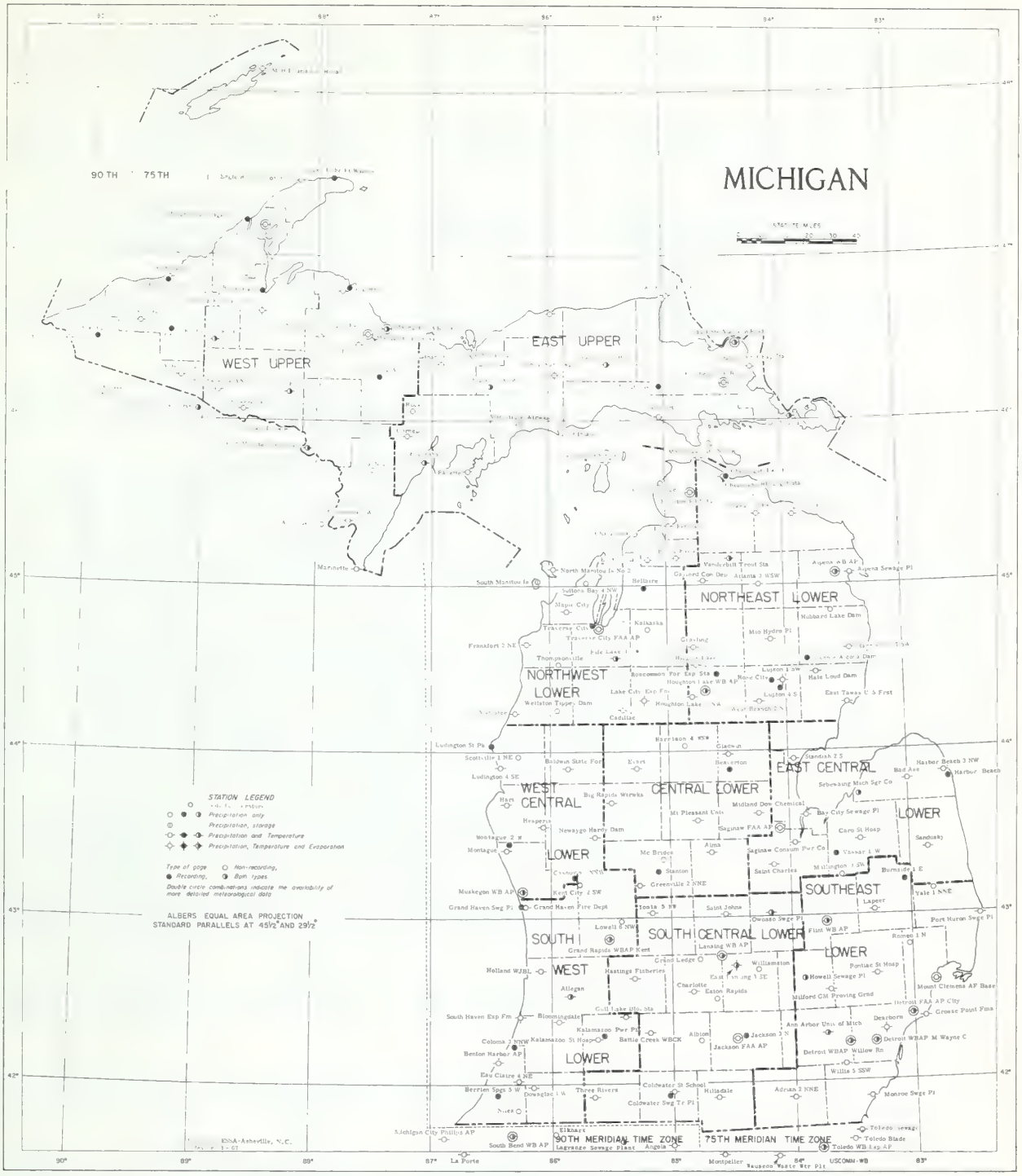
MICHIGAN
90 TH
75TH
WEST UPPER
EAST UPPER
NORTHEAST LOWER
NORTHWEST LOWER
EAST CENTRAL
WEST CENTRAL
CENTRAL LOWER
LOWER
SOUTHEAST
SOUTH WEST
SOUTH CENTRAL LOWER
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording,
Recording,
Both types.
Double circle combinations indicate the availability of more detailed meteorological data
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 45½° AND 29½°
90TH MERIDIAN TIME ZONE
75TH MERIDIAN TIME ZONE
ESSA-Asheville, N.C.

TABLE 48 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Lansing, Michigan

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.91	4.78	0.40	0.73	0.91	1.16	1.37	1.57	1.77	1.99	2.25	2.57	3.07	3.52
February	1.83	2.77	0.66	0.46	0.64	0.90	1.14	1.37	1.62	1.89	2.21	2.63	3.30	3.92
March	2.36	5.20	0.45	0.95	1.17	1.48	1.73	1.97	2.21	2.48	2.78	3.16	3.75	4.28
April	2.84	5.06	0.56	1.13	1.39	1.76	2.07	2.36	2.65	2.97	3.34	3.81	4.53	5.18
May	3.33	3.06	1.09	0.92	1.24	1.72	2.14	2.55	2.98	3.45	4.01	4.74	5.89	6.96
June	3.42	5.97	0.57	1.48	1.79	2.22	2.57	2.90	3.23	3.58	3.99	4.50	5.27	5.95
July	2.48	2.63	0.94	0.60	0.83	1.19	1.51	1.83	2.17	2.55	3.00	3.59	4.52	5.39
August	3.03	5.11	0.59	1.21	1.49	1.89	2.21	2.52	2.84	3.18	3.57	4.07	4.83	5.52
September	2.70	3.18	0.85	0.77	1.03	1.42	1.75	2.08	2.42	2.80	3.24	3.82	4.73	5.57
October	2.30	1.97	1.17	0.40	0.60	0.94	1.25	1.57	1.92	2.32	2.80	3.43	4.45	5.41
November	2.18	3.82	0.57	0.72	0.92	1.23	1.48	1.73	1.99	2.27	2.59	3.01	3.66	4.25
December	2.01	3.82	0.53	0.67	0.86	1.14	1.37	1.60	1.84	2.10	2.40	2.79	3.39	3.93

Division - Michigan South Central Lower Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.83	4.37	0.42	0.66	0.83	1.08	1.29	1.49	1.69	1.91	2.17	2.49	3.00	3.46
February	1.69	3.69	0.46	0.54	0.70	0.94	1.14	1.34	1.54	1.76	2.02	2.35	2.86	3.34
March	2.25	5.45	0.41	0.93	1.14	1.43	1.66	1.89	2.11	2.36	2.64	2.99	3.54	4.03
April	2.98	5.23	0.57	1.21	1.48	1.87	2.19	2.49	2.79	3.12	3.50	3.98	4.72	5.39
May	3.43	4.10	0.86	1.23	1.56	2.05	2.46	2.85	3.26	3.70	4.21	4.87	5.89	6.82
June	3.76	9.41	0.40	1.99	2.30	2.71	3.03	3.33	3.62	3.94	4.29	4.73	5.39	5.97
July	2.89	5.63	0.51	1.22	1.48	1.85	2.15	2.43	2.72	3.03	3.38	3.83	4.51	5.13
August	3.20	7.51	0.43	1.55	1.82	2.20	2.50	2.78	3.05	3.35	3.69	4.11	4.75	5.32
September	3.02	4.38	0.69	1.10	1.38	1.79	2.13	2.46	2.79	3.16	3.58	4.12	4.95	5.72
October	2.50	2.27	1.10	0.52	0.75	1.11	1.45	1.79	2.15	2.55	3.04	3.69	4.72	5.70
November	2.26	6.61	0.34	1.03	1.23	1.51	1.73	1.94	2.15	2.37	2.63	2.95	3.44	3.87
December	1.84	3.46	0.53	0.57	0.74	1.00	1.22	1.44	1.67	1.92	2.21	2.58	3.17	3.71

TABLE 49 - Precipitation Probabilities for Climatic Divisions

Michigan West Upper Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.78	6.88	0.26	0.83	0.99	1.20	1.37	1.53	1.70	1.87	2.06	2.31	2.68	3.01
February	1.54	4.97	0.31	0.60	0.75	0.95	1.11	1.27	1.43	1.61	1.81	2.06	2.45	2.79
March	1.73	4.89	0.35	0.67	0.83	1.06	1.25	1.43	1.61	1.80	2.03	2.32	2.76	3.16
April	2.37	5.35	0.44	0.97	1.19	1.49	1.75	1.98	2.22	2.48	2.78	3.16	3.74	4.27
May	3.21	6.60	0.49	1.47	1.75	2.14	2.46	2.75	3.05	3.37	3.73	4.19	4.88	5.50
June	3.78	5.23	0.72	1.53	1.88	2.37	2.78	3.16	3.55	3.96	4.45	5.06	6.00	6.85
July	3.29	6.01	0.55	1.43	1.73	2.14	2.48	2.79	3.11	3.45	3.84	4.33	5.08	5.76
August	3.63	9.74	0.37	1.95	2.24	2.63	2.94	3.22	3.50	3.80	4.13	4.55	5.17	5.71
September	3.48	5.90	0.59	1.50	1.82	2.26	2.61	2.95	3.29	3.65	4.07	4.59	5.38	6.09
October	2.31	4.22	0.55	0.82	1.04	1.35	1.62	1.87	2.13	2.41	2.74	3.16	3.81	4.41
November	2.74	7.50	0.36	1.33	1.56	1.88	2.14	2.38	2.62	2.87	3.16	3.52	4.07	4.56
December	1.80	11.21	0.16	1.02	1.16	1.34	1.49	1.62	1.75	1.89	2.04	2.23	2.52	2.77

Michigan East Upper Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.06	7.40	0.28	0.99	1.17	1.41	1.60	1.78	1.97	2.16	2.38	2.65	3.07	3.44
February	1.69	6.47	0.26	0.76	0.91	1.12	1.29	1.45	1.61	1.77	1.97	2.21	2.58	2.91
March	1.82	6.44	0.28	0.82	0.98	1.21	1.39	1.56	1.73	1.91	2.12	2.38	2.78	3.14
April	2.21	5.67	0.39	0.93	1.13	1.42	1.65	1.86	2.08	2.32	2.59	2.93	3.45	3.92
May	2.96	7.96	0.37	1.47	1.72	2.06	2.33	2.59	2.84	3.10	3.41	3.78	4.35	4.84
June	3.26	5.50	0.59	1.36	1.65	2.07	2.42	2.74	3.07	3.42	3.83	4.34	5.13	5.84
July	2.91	5.40	0.54	1.20	1.46	1.84	2.14	2.43	2.73	3.04	3.41	3.87	4.58	5.22
August	3.07	8.65	0.35	1.58	1.83	2.18	2.45	2.70	2.95	3.22	3.52	3.90	4.46	4.96
September	3.78	7.26	0.52	1.80	2.13	2.58	2.94	3.27	3.61	3.96	4.37	4.88	5.65	6.34
October	2.55	4.20	0.61	0.90	1.14	1.49	1.78	2.06	2.35	2.66	3.02	3.49	4.21	4.87
November	3.05	7.73	0.39	1.50	1.76	2.11	2.40	2.66	2.92	3.20	3.52	3.92	4.51	5.04
December	2.23	13.32	0.17	1.33	1.49	1.71	1.87	2.02	2.17	2.33	2.51	2.72	3.04	3.32

TABLE 50 - Precipitation Probabilities for Climatic Divisions

Michigan Northwest Lower Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.90	8.11	0.23	0.95	1.11	1.33	1.50	1.66	1.82	1.99	2.18	2.43	2.79	3.11
February	1.45	5.56	0.26	0.61	0.74	0.92	1.07	1.22	1.36	1.52	1.70	1.92	2.27	2.58
March	1.71	4.94	0.35	0.67	0.82	1.05	1.23	1.41	1.59	1.78	2.01	2.29	2.72	3.11
April	2.39	5.28	0.45	0.97	1.19	1.50	1.75	2.00	2.24	2.50	2.81	3.19	3.78	4.31
May	2.90	6.09	0.48	1.27	1.53	1.90	2.19	2.47	2.74	3.04	3.39	3.82	4.47	5.07
June	2.95	5.75	0.51	1.25	1.52	1.89	2.20	2.49	2.78	3.09	3.44	3.89	4.58	5.20
July	2.74	6.80	0.40	1.27	1.51	1.84	2.10	2.35	2.60	2.87	3.17	3.55	4.13	4.64
August	3.01	5.07	0.59	1.20	1.48	1.87	2.20	2.50	2.82	3.16	3.55	4.04	4.81	5.50
September	3.83	4.43	0.86	1.40	1.76	2.28	2.71	3.12	3.55	4.01	4.54	5.22	6.27	7.23
October	2.75	3.42	0.80	0.84	1.10	1.49	1.82	2.15	2.48	2.86	3.29	3.86	4.74	5.55
November	2.87	7.15	0.40	1.36	1.61	1.95	2.22	2.48	2.73	3.01	3.32	3.71	4.30	4.83
December	1.93	15.62	0.12	1.20	1.34	1.51	1.65	1.77	1.89	2.02	2.16	2.33	2.58	2.80

Michigan Northeast Lower Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.61	5.52	0.29	0.67	0.82	1.03	1.20	1.36	1.52	1.69	1.89	2.15	2.53	2.88
February	1.36	5.00	0.27	0.54	0.66	0.84	0.99	1.13	1.27	1.42	1.60	1.83	2.17	2.47
March	1.73	5.08	0.34	0.69	0.85	1.08	1.26	1.44	1.62	1.81	2.04	2.32	2.76	3.16
April	2.34	6.67	0.35	1.07	1.28	1.56	1.79	2.01	2.22	2.45	2.71	3.04	3.54	3.99
May	2.94	5.42	0.54	1.21	1.48	1.86	2.17	2.47	2.76	3.08	3.45	3.92	4.63	5.28
June	2.88	6.56	0.44	1.31	1.57	1.92	2.21	2.47	2.74	3.03	3.35	3.76	4.39	4.95
July	2.84	7.62	0.37	1.39	1.63	1.96	2.23	2.47	2.72	2.98	3.28	3.65	4.22	4.72
August	3.02	6.26	0.48	1.34	1.61	1.98	2.29	2.57	2.86	3.16	3.51	3.96	4.63	5.23
September	3.60	4.87	0.74	1.40	1.73	2.20	2.60	2.97	3.35	3.76	4.24	4.84	5.76	6.59
October	2.43	2.84	0.86	0.63	0.86	1.21	1.53	1.83	2.15	2.51	2.94	3.49	4.36	5.16
November	2.44	8.12	0.30	1.22	1.43	1.71	1.93	2.14	2.34	2.56	2.81	3.12	3.58	4.00
December	1.67	8.92	0.19	0.87	1.01	1.19	1.34	1.48	1.61	1.75	1.91	2.11	2.41	2.68

TABLE 51 - Precipitation Probabilities for Climatic Divisions

Michigan West Central Lower Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.21	6.15	0.36	0.97	1.17	1.45	1.67	1.88	2.09	2.32	2.58	2.90	3.40	3.85
February	1.79	4.60	0.39	0.67	0.84	1.08	1.28	1.47	1.66	1.87	2.12	2.43	2.91	3.34
March	1.99	5.59	0.36	0.84	1.02	1.27	1.48	1.68	1.88	2.09	2.33	2.65	3.12	3.55
April	2.64	3.92	0.67	0.89	1.14	1.50	1.81	2.11	2.41	2.75	3.14	3.64	4.41	5.10
May	2.88	6.06	0.48	1.26	1.52	1.88	2.17	2.45	2.73	3.02	3.36	3.79	4.45	5.04
June	2.91	5.42	0.54	1.20	1.47	1.84	2.15	2.44	2.73	3.05	3.41	3.88	4.58	5.22
July	2.60	4.66	0.56	0.98	1.22	1.57	1.86	2.13	2.41	2.72	3.07	3.52	4.20	4.83
August	3.05	5.95	0.51	1.32	1.60	1.98	2.29	2.59	2.88	3.20	3.56	4.02	4.71	5.32
September	3.53	3.78	0.93	1.16	1.49	1.98	2.40	2.80	3.22	3.67	4.21	4.89	5.95	6.92
October	2.68	2.80	0.96	0.69	0.94	1.33	1.67	2.01	2.37	2.76	3.23	3.85	4.81	5.71
November	2.92	6.09	0.48	1.28	1.54	1.91	2.20	2.48	2.76	3.06	3.40	3.84	4.50	5.09
December	2.09	7.18	0.29	0.99	1.17	1.42	1.62	1.81	1.99	2.19	2.42	2.70	3.13	3.51

Michigan Central Lower Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.70	3.58	0.47	0.54	0.70	0.94	1.14	1.34	1.54	1.77	2.03	2.37	2.90	3.39
February	1.52	3.63	0.42	0.48	0.63	0.84	1.02	1.20	1.38	1.58	1.81	2.12	2.58	3.02
March	1.95	5.72	0.34	0.83	1.01	1.25	1.46	1.65	1.84	2.05	2.29	2.59	3.04	3.46
April	2.65	4.60	0.58	0.99	1.24	1.59	1.89	2.17	2.46	2.77	3.13	3.59	4.30	4.95
May	3.00	5.64	0.53	1.26	1.54	1.92	2.23	2.52	2.82	3.14	3.51	3.97	4.68	5.32
June	3.10	6.81	0.46	1.44	1.71	2.08	2.39	2.67	2.95	3.25	3.60	4.03	4.68	5.26
July	2.66	3.83	0.69	0.88	1.13	1.50	1.82	2.12	2.43	2.77	3.17	3.68	4.47	5.19
August	3.16	5.77	0.55	1.35	1.64	2.04	2.36	2.67	2.98	3.32	3.70	4.18	4.92	5.58
September	3.37	4.62	0.73	1.27	1.58	2.03	2.41	2.77	3.13	3.53	3.99	4.57	5.47	6.29
October	2.52	2.22	1.13	0.51	0.74	1.11	1.45	1.79	2.15	2.57	3.07	3.73	4.78	5.79
November	2.45	4.85	0.51	0.95	1.18	1.50	1.77	2.03	2.29	2.57	2.89	3.31	3.94	4.51
December	1.81	4.21	0.43	0.64	0.81	1.06	1.27	1.47	1.67	1.89	2.15	2.48	3.00	3.46

TABLE 52 - Precipitation Probabilities for Climatic Divisions

Michigan East Central Lower Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.62	3.68	0.44	0.52	0.67	0.90	1.09	1.28	1.47	1.68	1.93	2.25	2.74	3.20
February	1.59	3.86	0.41	0.53	0.68	0.90	1.09	1.27	1.45	1.65	1.89	2.19	2.66	3.09
March	1.84	4.76	0.39	0.70	0.88	1.12	1.32	1.52	1.71	1.92	2.17	2.48	2.96	3.40
April	2.43	4.92	0.49	0.95	1.17	1.50	1.76	2.01	2.27	2.55	2.86	3.27	3.89	4.44
May	2.87	4.63	0.62	1.08	1.35	1.73	2.05	2.36	2.67	3.00	3.39	3.89	4.65	5.35
June	2.98	6.73	0.44	1.37	1.64	2.00	2.29	2.56	2.83	3.13	3.46	3.88	4.51	5.08
July	2.66	4.61	0.58	1.00	1.25	1.60	1.90	2.18	2.47	2.78	3.15	3.61	4.32	4.96
August	2.84	5.76	0.49	1.21	1.47	1.82	2.12	2.39	2.67	2.97	3.32	3.75	4.41	5.00
September	2.93	6.72	0.44	1.35	1.60	1.96	2.25	2.51	2.78	3.07	3.40	3.81	4.43	4.99
October	2.43	2.58	0.94	0.57	0.80	1.16	1.47	1.79	2.12	2.50	2.94	3.53	4.45	5.32
November	2.21	5.84	0.38	0.95	1.15	1.42	1.65	1.86	2.08	2.31	2.58	2.91	3.42	3.87
December	1.78	5.44	0.33	0.74	0.90	1.13	1.32	1.50	1.68	1.87	2.09	2.38	2.81	3.20

Michigan Southwest Lower Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.21	6.27	0.35	0.99	1.18	1.46	1.68	1.89	2.10	2.32	2.58	2.90	3.39	3.84
February	1.82	5.91	0.31	0.79	0.95	1.18	1.36	1.54	1.71	1.90	2.12	2.39	2.81	3.18
March	2.45	5.87	0.42	1.06	1.28	1.59	1.84	2.07	2.31	2.57	2.86	3.23	3.79	4.30
April	3.14	4.57	0.69	1.17	1.47	1.89	2.24	2.57	2.92	3.29	3.72	4.27	5.11	5.88
May	3.53	4.49	0.78	1.30	1.63	2.11	2.50	2.88	3.27	3.69	4.18	4.80	5.75	6.63
June	3.54	8.57	0.41	1.81	2.10	2.50	2.82	3.11	3.40	3.71	4.06	4.49	5.14	5.72
July	2.87	4.78	0.60	1.10	1.37	1.75	2.07	2.37	2.67	3.01	3.39	3.88	4.63	5.30
August	3.17	5.20	0.61	1.28	1.57	1.98	2.32	2.65	2.97	3.32	3.73	4.25	5.03	5.75
September	3.33	3.59	0.93	1.05	1.37	1.83	2.23	2.62	3.02	3.46	3.98	4.64	5.68	6.63
October	2.92	2.11	1.38	0.55	0.82	1.24	1.64	2.04	2.47	2.96	3.55	4.34	5.60	6.80
November	2.66	8.11	0.33	1.33	1.56	1.86	2.10	2.33	2.55	2.79	3.06	3.40	3.91	4.36
December	2.29	5.88	0.39	0.99	1.19	1.48	1.72	1.94	2.16	2.40	2.68	3.02	3.55	4.02

TABLE 53 - Precipitation Probabilities for Climatic Divisions

Michigan Southeast Lower Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.83	3.54	0.52	0.57	0.74	1.00	1.22	1.44	1.66	1.90	2.19	2.56	3.13	3.66
February	1.83	3.14	0.58	0.52	0.69	0.96	1.19	1.41	1.64	1.90	2.20	2.60	3.22	3.80
March	2.26	5.70	0.40	0.96	1.16	1.45	1.68	1.90	2.13	2.37	2.64	2.99	3.52	4.00
April	2.98	6.21	0.48	1.32	1.59	1.96	2.26	2.54	2.82	3.13	3.47	3.91	4.58	5.18
May	3.26	4.45	0.73	1.20	1.50	1.94	2.31	2.66	3.02	3.41	3.86	4.44	5.33	6.14
June	3.24	8.20	0.39	1.63	1.90	2.27	2.56	2.83	3.11	3.39	3.72	4.13	4.74	5.29
July	2.73	7.48	0.36	1.32	1.55	1.87	2.13	2.37	2.60	2.86	3.15	3.51	4.05	4.54
August	3.06	6.83	0.45	1.42	1.68	2.05	2.35	2.63	2.91	3.20	3.54	3.97	4.61	5.18
September	2.66	5.57	0.48	1.12	1.36	1.70	1.98	2.24	2.51	2.79	3.12	3.54	4.17	4.75
October	2.44	2.66	0.92	0.60	0.82	1.18	1.50	1.81	2.14	2.51	2.95	3.53	4.44	5.29
November	2.10	5.75	0.36	0.89	1.08	1.35	1.57	1.77	1.98	2.20	2.45	2.77	3.26	3.70
December	1.90	3.85	0.49	0.63	0.81	1.08	1.30	1.52	1.74	1.98	2.27	2.63	3.19	3.71

MINNESOTA
STATUTE MILES
0 0 0 20 30 40
90 TH MERIDIAN TIME ZONE
NORTH CENTRAL
NORTHEAST
NORTHWEST
WEST CENTRAL
EAST CENTRAL
CENTRAL
SOUTHWEST
SOUTH CENTRAL
SOUTHEAST
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Soil Temperature
Type of gage
Non-recording,
Recording,
Both types
Double circle combinations indicate the availability of more detailed meteorological data
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29½ AND 45½°

TABLE 54 - Comparison of Station Data with Corresponding Climate Division Data

Station--St. Cloud, Minnesota

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.71	1.71	0.41	0.10	0.16	0.26	0.36	0.46	0.57	0.70	0.86	1.08	1.42	1.75
February	0.79	1.56	0.50	0.10	0.16	0.27	0.38	0.50	0.63	0.78	0.96	1.21	1.62	2.02
March	1.30	2.75	0.47	0.33	0.45	0.64	0.81	0.97	1.15	1.34	1.57	1.87	2.35	2.79
April	2.06	2.73	0.76	0.51	0.71	1.01	1.27	1.54	1.81	2.12	2.49	2.97	3.73	4.43
May	3.65	2.97	1.23	0.99	1.33	1.86	2.32	2.77	3.25	3.77	4.39	5.20	6.46	7.61
June	4.34	3.58	1.21	1.37	1.78	2.39	2.91	3.42	3.94	4.52	5.19	6.06	7.41	8.66
July	3.24	3.71	0.87	1.05	1.35	1.81	2.19	2.56	2.95	3.37	3.86	4.50	5.48	6.39
August	3.90	2.96	1.32	1.05	1.42	1.98	2.47	2.96	3.46	4.02	4.69	5.55	6.89	8.12
September	2.46	2.34	1.05	0.53	0.75	1.11	1.44	1.77	2.12	2.52	2.99	3.62	4.62	5.57
October	1.50	1.38	1.09	0.15	0.26	0.47	0.68	0.91	1.16	1.46	1.84	2.35	3.20	4.02
November	1.21	1.15	1.05	0.09	0.16	0.32	0.48	0.67	0.89	1.14	1.47	1.93	2.70	3.46
December	0.73	1.36	0.54	0.07	0.13	0.23	0.33	0.44	0.56	0.71	0.89	1.14	1.56	1.97

Division--Minnesota Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.63	1.87	0.34	0.10	0.16	0.25	0.33	0.42	0.52	0.63	0.76	0.94	1.24	1.51
February	0.73	1.84	0.40	0.12	0.18	0.28	0.38	0.49	0.60	0.73	0.88	1.09	1.43	1.76
March	1.38	2.77	0.50	0.35	0.48	0.68	0.86	1.03	1.22	1.42	1.66	1.98	2.48	2.95
April	2.21	4.02	0.55	0.76	0.97	1.27	1.53	1.78	2.03	2.31	2.63	3.05	3.69	4.28
May	3.64	3.65	1.00	1.16	1.51	2.02	2.45	2.87	3.31	3.79	4.35	5.07	6.18	7.21
June	4.32	5.74	0.75	1.84	2.23	2.78	3.22	3.64	4.07	4.53	5.05	5.71	6.72	7.62
July	3.43	5.11	0.67	1.37	1.69	2.13	2.50	2.85	3.21	3.59	4.04	4.60	5.46	6.24
August	3.75	5.14	0.73	1.50	1.84	2.33	2.74	3.12	3.51	3.92	4.41	5.02	5.96	6.81
September	2.58	2.97	0.87	0.70	0.94	1.31	1.64	1.96	2.29	2.66	3.10	3.67	4.56	5.37
October	1.49	1.69	0.89	0.21	0.33	0.55	0.75	0.97	1.21	1.48	1.82	2.28	3.02	3.73
November	1.19	1.98	0.60	0.21	0.31	0.49	0.65	0.81	0.99	1.20	1.45	1.78	2.30	2.79
December	0.71	1.60	0.45	0.09	0.15	0.25	0.35	0.46	0.57	0.71	0.87	1.10	1.46	1.82

TABLE 55 - Precipitation Probabilities for Climatic Divisions

Minnesota Northwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.59	2.47	0.24	0.13	0.19	0.27	0.35	0.43	0.51	0.60	0.71	0.86	1.09	1.30
February	0.52	2.26	0.23	0.11	0.16	0.23	0.30	0.37	0.45	0.53	0.64	0.77	0.99	1.20
March	0.85	2.98	0.28	0.23	0.31	0.43	0.54	0.64	0.75	0.87	1.02	1.20	1.49	1.76
April	1.67	2.61	0.64	0.40	0.56	0.80	1.02	1.24	1.46	1.72	2.02	2.42	3.06	3.65
May	2.56	4.19	0.61	0.90	1.14	1.49	1.79	2.07	2.36	2.67	3.04	3.51	4.23	4.90
June	3.56	6.63	0.54	1.63	1.94	2.38	2.73	3.06	3.38	3.74	4.14	4.64	5.41	6.09
July	3.24	5.49	0.59	1.35	1.64	2.06	2.40	2.72	3.04	3.40	3.80	4.31	5.09	5.79
August	3.18	5.39	0.59	1.31	1.60	2.01	2.34	2.66	2.98	3.33	3.73	4.24	5.01	5.71
September	2.27	2.54	0.89	0.53	0.74	1.07	1.37	1.67	1.98	2.33	2.75	3.31	4.18	5.00
October	1.25	2.19	0.57	0.25	0.36	0.55	0.71	0.89	1.07	1.28	1.52	1.85	2.38	2.89
November	0.95	2.90	0.33	0.25	0.34	0.48	0.60	0.71	0.84	0.98	1.14	1.35	1.68	1.99
December	0.64	3.19	0.20	0.18	0.24	0.33	0.41	0.49	0.57	0.66	0.76	0.90	1.11	1.31

Minnesota North Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.70	2.65	0.26	0.17	0.24	0.34	0.43	0.52	0.62	0.72	0.85	1.02	1.28	1.53
February	0.64	1.94	0.33	0.11	0.16	0.26	0.35	0.43	0.53	0.64	0.78	0.96	1.24	1.51
March	1.04	3.88	0.27	0.35	0.45	0.59	0.71	0.83	0.95	1.09	1.24	1.44	1.74	2.02
April	2.03	3.62	0.56	0.64	0.84	1.12	1.37	1.60	1.85	2.11	2.43	2.83	3.46	4.04
May	3.14	4.27	0.74	1.12	1.42	1.84	2.20	2.55	2.90	3.28	3.73	4.30	5.18	5.98
June	3.82	5.57	0.69	1.60	1.95	2.43	2.84	3.21	3.59	4.00	4.48	5.07	5.98	6.81
July	3.65	4.31	0.85	1.31	1.66	2.15	2.57	2.97	3.38	3.82	4.34	5.00	6.01	6.95
August	3.59	6.49	0.55	1.63	1.94	2.39	2.74	3.08	3.41	3.77	4.18	4.69	5.48	6.18
September	2.67	3.49	0.77	0.82	1.08	1.46	1.78	2.09	2.42	2.78	3.20	3.74	4.59	5.37
October	1.47	2.50	0.59	0.34	0.47	0.69	0.88	1.08	1.28	1.51	1.79	2.15	2.72	3.26
November	1.25	3.08	0.41	0.35	0.47	0.65	0.80	0.96	1.12	1.29	1.50	1.78	2.20	2.60
December	0.79	3.00	0.26	0.21	0.29	0.40	0.50	0.60	0.70	0.81	0.95	1.12	1.39	1.63

TABLE 56 - Precipitation Probabilities for Climatic Divisions

Minnesota Northeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.89	3.67	0.24	0.28	0.37	0.49	0.60	0.70	0.81	0.92	1.06	1.23	1.50	1.75
February	0.74	2.76	0.27	0.19	0.26	0.37	0.46	0.56	0.65	0.77	0.90	1.07	1.34	1.59
March	1.18	3.39	0.35	0.36	0.47	0.64	0.78	0.92	1.07	1.23	1.42	1.66	2.04	2.40
April	2.14	3.67	0.59	0.69	0.89	1.19	1.45	1.70	1.95	2.23	2.56	2.99	3.64	4.25
May	3.18	5.58	0.57	1.33	1.62	2.03	2.36	2.67	2.99	3.33	3.72	4.22	4.98	5.66
June	3.83	5.90	0.65	1.65	2.00	2.48	2.88	3.24	3.62	4.02	4.47	5.05	5.93	6.71
July	3.56	5.71	0.62	1.51	1.83	2.28	2.65	3.00	3.35	3.73	4.16	4.71	5.54	6.29
August	3.74	6.62	0.57	1.71	2.04	2.50	2.86	3.21	3.55	3.92	4.35	4.88	5.68	6.40
September	3.28	3.47	0.94	1.01	1.32	1.78	2.18	2.57	2.97	3.41	3.92	4.59	5.63	6.60
October	1.92	2.43	0.79	0.43	0.61	0.89	1.14	1.40	1.67	1.97	2.33	2.81	3.58	4.29
November	1.64	3.63	0.45	0.52	0.68	0.91	1.10	1.29	1.49	1.70	1.96	2.28	2.79	3.25
December	0.98	2.81	0.35	0.25	0.34	0.49	0.61	0.74	0.87	1.01	1.18	1.41	1.76	2.08

Minnesota West Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.58	1.62	0.36	0.08	0.12	0.20	0.29	0.37	0.46	0.57	0.70	0.88	1.18	1.46
February	0.69	1.50	0.46	0.08	0.13	0.23	0.33	0.43	0.54	0.68	0.84	1.07	1.44	1.80
March	1.20	3.11	0.39	0.34	0.45	0.63	0.78	0.92	1.08	1.25	1.45	1.71	2.12	2.50
April	2.27	3.37	0.67	0.68	0.90	1.22	1.50	1.77	2.05	2.36	2.73	3.20	3.93	4.61
May	3.14	3.97	0.79	1.07	1.36	1.80	2.16	2.51	2.87	3.27	3.73	4.32	5.22	6.04
June	4.10	7.36	0.56	1.97	2.32	2.81	3.20	3.56	3.92	4.30	4.74	5.29	6.12	6.86
July	3.18	4.85	0.65	1.23	1.52	1.95	2.29	2.62	2.96	3.32	3.74	4.28	5.09	5.83
August	3.25	5.41	0.60	1.34	1.64	2.06	2.40	2.73	3.05	3.41	3.82	4.33	5.12	5.84
September	2.20	2.76	0.80	0.56	0.76	1.08	1.37	1.65	1.94	2.27	2.66	3.17	3.97	4.71
October	1.29	1.43	0.90	0.14	0.24	0.41	0.59	0.79	1.00	1.26	1.57	2.00	2.71	3.40
November	0.97	1.85	0.52	0.16	0.24	0.38	0.51	0.65	0.80	0.98	1.19	1.47	1.92	2.35
December	0.63	1.86	0.34	0.10	0.16	0.25	0.34	0.43	0.52	0.64	0.77	0.95	1.25	1.53

TABLE 57 - Precipitation Probabilities for Climatic Divisions

Minnesota East Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.76	2.47	0.31	0.17	0.24	0.35	0.45	0.55	0.66	0.78	0.92	1.11	1.40	1.68
February	0.78	2.01	0.39	0.14	0.21	0.32	0.43	0.54	0.66	0.79	0.95	1.17	1.52	1.85
March	1.42	3.72	0.38	0.46	0.60	0.79	0.96	1.13	1.29	1.48	1.69	1.97	2.40	2.80
April	2.22	5.12	0.43	0.88	1.09	1.38	1.62	1.84	2.07	2.32	2.61	2.97	3.53	4.03
May	3.75	4.29	0.87	1.34	1.69	2.20	2.63	3.04	3.46	3.91	4.44	5.12	6.17	7.13
June	4.34	5.23	0.83	1.75	2.15	2.72	3.18	3.62	4.06	4.55	5.10	5.80	6.88	7.86
July	3.51	4.21	0.83	1.24	1.57	2.05	2.45	2.84	3.23	3.66	4.16	4.81	5.80	6.71
August	3.94	5.70	0.69	1.67	2.03	2.53	2.94	3.33	3.72	4.13	4.62	5.22	6.15	6.98
September	2.81	3.65	0.77	0.90	1.16	1.56	1.90	2.22	2.56	2.93	3.36	3.92	4.78	5.58
October	1.74	2.07	0.84	0.32	0.48	0.73	0.97	1.21	1.47	1.76	2.12	2.59	3.36	4.08
November	1.44	2.71	0.53	0.36	0.49	0.71	0.89	1.08	1.27	1.49	1.75	2.08	2.62	3.11
December	0.84	2.05	0.41	0.15	0.23	0.35	0.47	0.58	0.71	0.85	1.03	1.26	1.63	1.98

Minnesota Southwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.48	1.82	0.27	0.08	0.12	0.19	0.25	0.32	0.40	0.49	0.59	0.73	0.96	1.18
February	0.75	1.51	0.50	0.09	0.15	0.25	0.36	0.47	0.59	0.73	0.91	1.16	1.56	1.94
March	1.41	3.17	0.45	0.40	0.54	0.74	0.92	1.09	1.27	1.46	1.70	2.00	2.48	2.92
April	2.12	3.37	0.63	0.64	0.84	1.14	1.40	1.65	1.92	2.21	2.55	2.99	3.67	4.31
May	3.50	3.97	0.88	1.19	1.52	2.00	2.41	2.80	3.20	3.64	4.15	4.81	5.81	6.72
June	4.32	8.71	0.50	2.22	2.58	3.06	3.45	3.80	4.15	4.52	4.95	5.47	6.26	6.96
July	3.29	3.51	0.94	1.02	1.33	1.80	2.19	2.58	2.98	3.42	3.93	4.60	5.64	6.59
August	3.15	4.92	0.64	1.23	1.52	1.93	2.28	2.60	2.93	3.29	3.70	4.23	5.02	5.74
September	2.83	2.98	0.95	0.77	1.04	1.44	1.80	2.15	2.52	2.93	3.41	4.03	5.00	5.89
October	1.34	1.29	1.03	0.12	0.21	0.39	0.58	0.78	1.01	1.29	1.63	2.10	2.89	3.66
November	1.05	1.41	0.74	0.11	0.19	0.33	0.48	0.64	0.81	1.02	1.28	1.63	2.21	2.78
December	0.62	1.80	0.35	0.10	0.15	0.24	0.33	0.42	0.51	0.62	0.76	0.94	1.24	1.52

TABLE 58 - Precipitation Probabilities for Climatic Divisions

Minnesota South Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.75	1.98	0.38	0.13	0.20	0.31	0.41	0.51	0.63	0.75	0.91	1.12	1.45	1.76
February	0.90	2.16	0.42	0.17	0.26	0.39	0.51	0.63	0.76	0.91	1.09	1.33	1.72	2.08
March	1.69	4.29	0.39	0.61	0.77	1.00	1.19	1.38	1.57	1.77	2.01	2.32	2.79	3.22
April	2.30	4.53	0.51	0.85	1.07	1.38	1.63	1.88	2.13	2.40	2.72	3.12	3.74	4.31
May	3.87	4.19	0.92	1.37	1.73	2.26	2.71	3.13	3.57	4.04	4.60	5.31	6.40	7.41
June	4.47	6.04	0.74	1.95	2.35	2.91	3.37	3.80	4.23	4.69	5.22	5.89	6.90	7.82
July	3.62	3.57	1.01	1.14	1.48	1.99	2.43	2.85	3.29	3.77	4.33	5.05	6.18	7.23
August	3.80	5.87	0.65	1.64	1.98	2.46	2.85	3.22	3.59	3.98	4.44	5.01	5.88	6.66
September	3.02	2.64	1.15	0.73	1.01	1.46	1.85	2.24	2.65	3.11	3.66	4.38	5.51	6.57
October	1.56	1.34	1.16	0.15	0.26	0.48	0.69	0.93	1.20	1.51	1.91	2.45	3.34	4.22
November	1.34	1.81	0.74	0.21	0.32	0.52	0.70	0.89	1.10	1.34	1.63	2.03	2.66	3.27
December	0.91	2.36	0.38	0.20	0.28	0.41	0.53	0.65	0.78	0.93	1.10	1.33	1.70	2.04

Minnesota Southeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.86	2.11	0.41	0.16	0.24	0.36	0.48	0.60	0.73	0.87	1.04	1.27	1.65	2.00
February	0.89	1.68	0.53	0.12	0.20	0.32	0.45	0.58	0.72	0.88	1.08	1.36	1.80	2.22
March	1.83	4.14	0.44	0.64	0.81	1.06	1.27	1.47	1.68	1.91	2.17	2.51	3.03	3.51
April	2.32	5.54	0.42	0.97	1.18	1.48	1.72	1.95	2.18	2.43	2.72	3.09	3.64	4.14
May	3.79	4.75	0.80	1.45	1.80	2.31	2.72	3.12	3.53	3.97	4.47	5.12	6.11	7.01
June	4.35	5.80	0.75	1.86	2.26	2.81	3.26	3.68	4.10	4.56	5.09	5.75	6.76	7.66
July	3.62	3.78	0.96	1.19	1.53	2.04	2.47	2.88	3.31	3.77	4.32	5.02	6.11	7.10
August	3.93	5.77	0.68	1.68	2.03	2.53	2.93	3.32	3.70	4.11	4.59	5.19	6.10	6.92
September	3.37	2.27	1.49	0.69	1.00	1.50	1.95	2.40	2.89	3.44	4.10	4.97	6.37	7.69
October	1.74	2.08	0.84	0.32	0.48	0.74	0.97	1.21	1.47	1.76	2.12	2.59	3.35	4.08
November	1.66	1.97	0.84	0.29	0.43	0.68	0.90	1.13	1.38	1.67	2.02	2.47	3.21	3.90
December	0.94	1.88	0.50	0.15	0.24	0.37	0.50	0.64	0.78	0.95	1.15	1.42	1.86	2.27

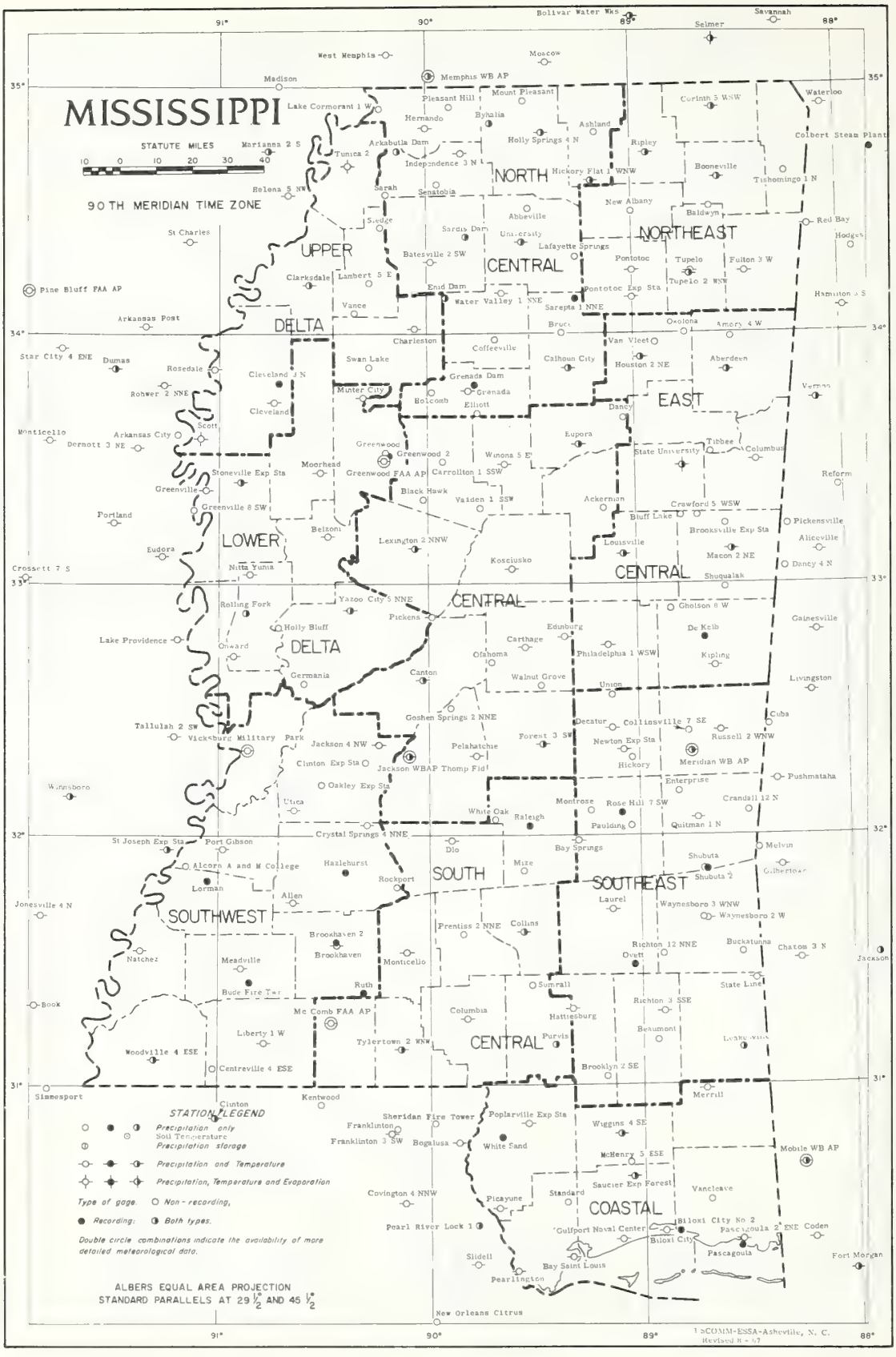
MISSISSIPPI
STATUTE MILES
10 0 10 20 30 40
90TH MERIDIAN TIME ZONE
NORTH
NORTHEAST
UPPER
CENTRAL
DELTA
EAST
LOWER
CENTRAL
CENTRAL
DELTA
SOUTH
SOUTHEAST
SOUTHWEST
CENTRAL
COASTAL
Memphis WB AP
Pine Bluff FAA AP
Greenwood FAA AP
Meridian WB AP
Jackson WBAP Thomp Fld
Mc Comb FAA AP
Gulfport Naval Center
Biloxi City No 2
Pascagoula 2 ENE
Mobile WB AP
New Orleans Citrus
Vicksburg Military Park
Stoneville Exp Sta
Pontotoc Exp Sta
Newton Exp Sta
Clinton Exp Sta
Oakley Exp Sta
Poplarville Exp Sta
Saucier Exp Forest
STATION LEGEND
Precipitation only
Soil Temperature
Precipitation storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage. Non-recording,
Recording: Both types.
Double circle combinations indicate the availability of more detailed meteorological data.
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2° AND 45 1/2°
USCOMM-ESSA-Asheville, N. C.
Revised 8-67

TABLE 59 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Meridian, Mississippi

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.77	3.26	1.46	1.39	1.85	2.53	3.12	3.69	4.29	4.95	5.73	6.73	8.31	9.77
February	5.30	3.46	1.53	1.63	2.13	2.88	3.53	4.15	4.80	5.51	6.35	7.43	9.12	10.68
March	6.23	4.63	1.35	2.34	2.92	3.76	4.45	5.11	5.79	6.52	7.36	8.44	10.10	11.61
April	5.19	2.75	1.89	1.31	1.79	2.55	3.22	3.88	4.57	5.35	6.27	7.47	9.37	11.13
May	3.94	1.84	2.14	0.63	0.97	1.54	2.08	2.64	3.25	3.95	4.80	5.94	7.77	9.52
June	4.14	4.31	0.96	1.49	1.88	2.44	2.91	3.36	3.82	4.32	4.91	5.65	6.81	7.86
July	5.84	2.46	2.38	1.32	1.86	2.71	3.48	4.25	5.07	5.99	7.09	8.53	10.83	12.99
August	3.51	2.96	1.19	0.94	1.27	1.78	2.22	2.66	3.11	3.62	4.22	4.99	6.20	7.31
September	3.00	2.39	1.26	0.65	0.93	1.37	1.77	2.17	2.59	3.07	3.65	4.40	5.60	6.74
October	2.16	0.79	2.73	0.06	0.14	0.35	0.61	0.94	1.34	1.86	2.54	3.53	5.26	7.02
November	3.45	1.89	1.82	0.57	0.87	1.37	1.84	2.33	2.86	3.46	4.20	5.18	6.76	8.25
December	5.64	5.52	1.02	2.35	2.87	3.59	4.18	4.74	5.31	5.92	6.62	7.50	8.86	10.08

Division--Mississippi Southeast Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.89	6.06	0.81	2.14	2.58	3.19	3.69	4.15	4.62	5.12	5.70	6.43	7.54	8.54
February	5.09	6.88	0.74	2.37	2.81	3.42	3.92	4.38	4.84	5.33	5.89	6.60	7.66	8.60
March	6.57	5.38	1.22	2.70	3.30	4.15	4.84	5.50	6.17	6.88	7.71	8.76	10.36	11.81
April	5.39	5.25	1.03	2.18	2.68	3.38	3.95	4.50	5.05	5.65	6.33	7.20	8.54	9.75
May	4.49	3.29	1.37	1.32	1.75	2.39	2.95	3.49	4.05	4.67	5.40	6.34	7.81	9.18
June	4.30	5.21	0.83	1.74	2.13	2.69	3.15	3.59	4.03	4.51	5.06	5.76	6.83	7.80
July	6.77	6.16	1.10	2.99	3.59	4.43	5.12	5.76	6.41	7.10	7.89	8.89	10.41	11.79
August	4.22	6.28	0.67	1.88	2.26	2.78	3.20	3.60	4.00	4.43	4.92	5.54	6.47	7.32
September	3.82	2.90	1.32	1.01	1.37	1.92	2.40	2.88	3.38	3.94	4.60	5.45	6.79	8.03
October	2.49	1.28	1.94	0.22	0.39	0.73	1.07	1.45	1.88	2.39	3.03	3.92	5.39	6.84
November	3.90	2.11	1.85	0.74	1.09	1.66	2.19	2.73	3.31	3.96	4.76	5.81	7.50	9.10
December	5.37	5.47	0.98	2.23	2.72	3.41	3.98	4.51	5.05	5.63	6.30	7.15	8.44	9.62

TABLE 60 - Precipitation Probabilities for Climatic Divisions

Mississippi Upper Delta Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	6.06	2.92	2.08	1.61	2.18	3.06	3.83	4.58	5.38	6.26	7.30	8.65	10.77	12.72
February	5.04	3.89	1.30	1.69	2.16	2.86	3.45	4.02	4.61	5.25	6.00	6.96	8.43	9.78
March	5.87	6.85	0.86	2.73	3.24	3.95	4.52	5.05	5.58	6.15	6.80	7.61	8.84	9.93
April	4.89	4.92	0.99	1.91	2.36	3.00	3.54	4.04	4.55	5.11	5.75	6.56	7.80	8.92
May	4.22	3.19	1.32	1.21	1.61	2.21	2.74	3.25	3.78	4.37	5.07	5.97	7.38	8.69
June	3.58	3.46	1.03	1.10	1.44	1.94	2.38	2.80	3.24	3.72	4.28	5.01	6.15	7.20
July	3.93	2.81	1.40	1.01	1.38	1.95	2.45	2.95	3.47	4.05	4.74	5.63	7.05	8.36
August	2.38	2.80	0.85	0.61	0.83	1.18	1.48	1.78	2.10	2.45	2.87	3.41	4.27	5.07
September	2.98	1.82	1.64	0.47	0.72	1.15	1.56	1.99	2.45	2.99	3.64	4.51	5.92	7.26
October	2.60	1.28	2.03	0.23	0.41	0.76	1.12	1.52	1.97	2.50	3.17	4.10	5.64	7.16
November	4.46	2.82	1.58	1.15	1.57	2.22	2.79	3.35	3.94	4.60	5.38	6.40	8.00	9.48
December	4.95	3.28	1.51	1.45	1.93	2.63	3.24	3.84	4.46	5.14	5.95	6.99	8.62	10.13

Mississippi North Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	6.03	3.08	1.96	1.68	2.25	3.12	3.88	4.62	5.39	6.25	7.26	8.58	10.64	12.57
February	5.18	3.86	1.34	1.72	2.21	2.93	3.54	4.13	4.73	5.39	6.16	7.15	8.68	10.07
March	5.80	6.44	0.90	2.62	3.13	3.84	4.42	4.96	5.50	6.08	6.74	7.58	8.85	9.99
April	5.05	5.44	0.93	2.09	2.55	3.20	3.74	4.24	4.75	5.30	5.93	6.73	7.95	9.06
May	4.07	4.77	0.85	1.56	1.94	2.48	2.93	3.35	3.79	4.26	4.80	5.49	6.55	7.51
June	3.78	2.48	1.52	0.86	1.21	1.76	2.26	2.76	3.28	3.87	4.58	5.51	6.99	8.38
July	4.20	3.57	1.17	1.32	1.72	2.31	2.82	3.31	3.81	4.37	5.02	5.86	7.17	8.38
August	3.07	3.69	0.83	0.99	1.28	1.71	2.08	2.43	2.80	3.20	3.67	4.27	5.20	6.06
September	3.35	2.58	1.30	0.79	1.10	1.59	2.03	2.47	2.93	3.44	4.06	4.86	6.14	7.34
October	2.79	2.16	1.29	0.54	0.79	1.20	1.58	1.96	2.37	2.83	3.39	4.13	5.32	6.46
November	4.60	3.19	1.44	1.32	1.76	2.42	2.99	3.55	4.13	4.77	5.53	6.51	8.05	9.49
December	5.17	3.38	1.53	1.56	2.05	2.78	3.41	4.03	4.67	5.37	6.20	7.26	8.93	10.48

TABLE 61 - Precipitation Probabilities for Climatic Divisions

Mississippi Northeast Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.91	3.55	1.66	1.85	2.41	3.25	3.96	4.65	5.37	6.15	7.07	8.26	10.11	11.82
February	5.39	3.79	1.42	1.77	2.28	3.03	3.67	4.28	4.92	5.61	6.42	7.46	9.07	10.55
March	6.02	6.89	0.87	2.80	3.33	4.05	4.64	5.18	5.73	6.31	6.97	7.80	9.05	10.17
April	4.80	7.57	0.63	2.33	2.74	3.31	3.76	4.17	4.59	5.03	5.54	6.17	7.12	7.98
May	3.96	4.85	0.82	1.53	1.90	2.42	2.86	3.27	3.69	4.14	4.66	5.33	6.35	7.26
June	3.84	3.11	1.23	1.08	1.44	2.00	2.48	2.94	3.43	3.98	4.62	5.45	6.75	7.97
July	4.35	5.74	0.76	1.85	2.24	2.80	3.25	3.67	4.10	4.56	5.09	5.75	6.77	7.68
August	3.07	3.10	0.99	0.86	1.15	1.59	1.98	2.36	2.75	3.18	3.70	4.37	5.41	6.39
September	3.28	1.70	1.93	0.47	0.74	1.21	1.66	2.14	2.66	3.27	4.00	5.00	6.62	8.18
October	2.76	1.82	1.52	0.43	0.67	1.07	1.45	1.85	2.28	2.77	3.37	4.17	5.47	6.71
November	4.57	2.65	1.73	1.11	1.54	2.20	2.80	3.39	4.01	4.70	5.53	6.61	8.32	9.93
December	5.17	3.77	1.37	1.69	2.19	2.91	3.52	4.11	4.72	5.39	6.17	7.17	8.72	10.14

Mississippi Lower Delta Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.61	3.27	1.71	1.65	2.18	2.98	3.68	4.35	5.05	5.83	6.74	7.92	9.77	11.49
February	5.05	4.80	1.05	1.94	2.41	3.08	3.64	4.16	4.70	5.28	5.95	6.81	8.12	9.30
March	5.63	10.12	0.56	3.07	3.51	4.11	4.58	5.01	5.44	5.89	6.40	7.04	7.98	8.81
April	5.05	4.56	1.11	1.88	2.35	3.03	3.60	4.13	4.68	5.28	5.97	6.86	8.21	9.45
May	3.86	3.43	1.13	1.18	1.55	2.09	2.56	3.02	3.50	4.02	4.63	5.42	6.66	7.80
June	3.76	2.68	1.40	0.92	1.28	1.82	2.31	2.79	3.30	3.87	4.55	5.43	6.83	8.13
July	4.22	3.32	1.27	1.25	1.66	2.26	2.78	3.28	3.81	4.39	5.07	5.95	7.33	8.61
August	2.78	3.79	0.73	0.91	1.18	1.56	1.89	2.21	2.54	2.90	3.31	3.85	4.68	5.45
September	2.85	1.81	1.57	0.45	0.69	1.10	1.49	1.90	2.35	2.86	3.48	4.31	5.66	6.94
October	2.52	1.68	1.50	0.35	0.56	0.92	1.27	1.64	2.04	2.51	3.08	3.85	5.10	6.30
November	4.54	2.64	1.72	1.10	1.52	2.19	2.78	3.36	3.98	4.67	5.49	6.57	8.27	9.87
December	5.23	3.82	1.37	1.73	2.22	2.95	3.57	4.16	4.78	5.45	6.23	7.24	8.79	10.21

TABLE 62 - Precipitation Probabilities for Climatic Divisions

Mississippi Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.51	3.44	1.60	1.68	2.21	2.99	3.66	4.31	4.98	5.73	6.60	7.73	9.48	11.11
February	5.22	5.09	1.03	2.08	2.56	3.25	3.81	4.34	4.89	5.47	6.15	7.01	8.33	9.52
March	5.95	9.40	0.63	3.15	3.63	4.28	4.80	5.27	5.74	6.23	6.79	7.49	8.53	9.45
April	4.72	5.04	0.94	1.87	2.30	2.92	3.43	3.92	4.41	4.94	5.56	6.34	7.53	8.62
May	4.03	4.93	0.82	1.57	1.95	2.48	2.92	3.34	3.76	4.22	4.75	5.42	6.44	7.35
June	3.74	3.86	0.97	1.24	1.60	2.12	2.56	2.98	3.42	3.89	4.45	5.16	6.27	7.27
July	5.21	4.06	1.28	1.80	2.29	3.01	3.61	4.19	4.79	5.44	6.20	7.17	8.68	10.06
August	3.25	5.41	0.60	1.34	1.64	2.05	2.40	2.72	3.05	3.41	3.81	4.33	5.12	5.84
September	2.81	2.75	1.02	0.71	0.97	1.38	1.74	2.10	2.47	2.89	3.39	4.04	5.06	6.02
October	2.31	1.54	1.50	0.28	0.46	0.79	1.11	1.45	1.83	2.27	2.82	3.56	4.78	5.95
November	4.14	2.14	1.93	0.80	1.17	1.78	2.33	2.90	3.51	4.20	5.04	6.14	7.92	9.61
December	5.17	5.25	0.98	2.10	2.57	3.24	3.79	4.32	4.85	5.42	6.08	6.91	8.19	9.35

Mississippi East Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.44	3.15	1.73	1.55	2.06	2.84	3.52	4.18	4.87	5.64	6.54	7.71	9.55	11.25
February	5.52	4.71	1.17	2.10	2.61	3.35	3.96	4.54	5.13	5.77	6.52	7.46	8.91	10.23
March	5.93	9.92	0.60	3.20	3.68	4.31	4.81	5.27	5.72	6.20	6.74	7.41	8.40	9.27
April	4.47	5.06	0.88	1.77	2.19	2.77	3.25	3.71	4.18	4.68	5.26	6.00	7.13	8.15
May	3.76	5.88	0.64	1.62	1.96	2.43	2.82	3.18	3.54	3.94	4.39	4.95	5.81	6.58
June	3.48	3.75	0.93	1.14	1.47	1.95	2.37	2.77	3.18	3.63	4.16	4.83	5.89	6.85
July	5.27	4.23	1.25	1.87	2.37	3.09	3.69	4.27	4.86	5.50	6.26	7.22	8.70	10.06
August	3.20	4.96	0.64	1.25	1.55	1.97	2.32	2.64	2.98	3.34	3.76	4.29	5.09	5.81
September	3.10	2.63	1.18	0.75	1.04	1.49	1.89	2.29	2.71	3.18	3.75	4.48	5.65	6.74
October	2.54	1.60	1.59	0.33	0.53	0.89	1.25	1.62	2.03	2.51	3.10	3.90	5.20	6.46
November	3.93	2.40	1.64	0.86	1.22	1.80	2.32	2.84	3.40	4.02	4.77	5.76	7.33	8.81
December	4.84	5.75	0.84	2.06	2.50	3.11	3.61	4.08	4.56	5.07	5.66	6.40	7.53	8.54

TABLE 63 - Precipitation Probabilities for Climatic Divisions

Mississippi Southwest Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.44	4.50	1.21	2.01	2.52	3.25	3.86	4.45	5.04	5.69	6.44	7.40	8.87	10.22
February	5.21	5.54	0.94	2.18	2.65	3.32	3.87	4.38	4.90	5.46	6.11	6.93	8.17	9.30
March	5.94	6.87	0.86	2.76	3.28	4.00	4.57	5.11	5.65	6.22	6.88	7.70	8.94	10.04
April	5.15	3.60	1.43	1.63	2.12	2.84	3.46	4.06	4.68	5.36	6.16	7.19	8.79	10.26
May	4.77	3.71	1.29	1.54	1.99	2.66	3.23	3.78	4.34	4.96	5.69	6.62	8.07	9.40
June	4.17	3.62	1.15	1.33	1.72	2.31	2.81	3.29	3.79	4.34	4.98	5.81	7.10	8.29
July	5.14	4.84	1.06	1.99	2.46	3.14	3.71	4.24	4.79	5.37	6.06	6.92	8.24	9.44
August	3.70	5.43	0.68	1.53	1.87	2.34	2.73	3.10	3.48	3.88	4.34	4.93	5.83	6.64
September	2.99	2.69	1.11	0.74	1.02	1.45	1.84	2.22	2.62	3.07	3.61	4.31	5.42	6.45
October	2.32	1.65	1.40	0.32	0.51	0.84	1.16	1.50	1.87	2.30	2.83	3.54	4.71	5.83
November	4.21	1.79	2.35	0.65	1.01	1.62	2.20	2.80	3.46	4.22	5.14	6.38	8.38	10.29
December	5.59	7.69	0.73	2.74	3.21	3.86	4.39	4.87	5.35	5.86	6.45	7.18	8.27	9.25

Mississippi South Central Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.15	4.84	1.06	1.99	2.47	3.15	3.72	4.25	4.80	5.39	6.07	6.94	8.27	9.47
February	5.17	6.64	0.78	2.37	2.82	3.45	3.96	4.44	4.91	5.42	6.00	6.74	7.84	8.84
March	6.24	3.91	1.60	2.10	2.69	3.55	4.29	4.99	5.71	6.50	7.43	8.61	10.43	12.08
April	5.44	3.68	1.48	1.75	2.27	3.03	3.68	4.31	4.96	5.67	6.50	7.57	9.24	10.77
May	4.81	2.97	1.62	1.30	1.75	2.45	3.05	3.65	4.27	4.96	5.78	6.84	8.49	10.00
June	4.57	2.30	1.98	0.96	1.38	2.05	2.66	3.27	3.93	4.67	5.55	6.73	8.60	10.37
July	6.12	3.86	1.58	2.04	2.62	3.47	4.19	4.88	5.59	6.37	7.29	8.45	10.26	11.90
August	4.26	6.00	0.71	1.85	2.24	2.77	3.20	3.61	4.02	4.46	4.96	5.60	6.55	7.40
September	3.88	2.36	1.65	0.84	1.19	1.76	2.28	2.80	3.35	3.97	4.72	5.70	7.26	8.74
October	2.62	1.68	1.56	0.37	0.58	0.96	1.33	1.71	2.13	2.61	3.20	4.00	5.31	6.56
November	3.71	1.93	1.92	0.63	0.95	1.49	2.00	2.52	3.09	3.73	4.52	5.56	7.23	8.81
December	5.58	5.58	1.00	2.34	2.84	3.56	4.14	4.69	5.25	5.85	6.54	7.41	8.73	9.94

TABLE 64 - Precipitation Probabilities for Climatic Divisions

Mississippi Coastal Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.31	4.53	0.95	1.60	2.00	2.58	3.06	3.52	3.99	4.51	5.10	5.85	7.02	8.08
February	4.59	4.47	1.03	1.69	2.12	2.74	3.25	3.74	4.25	4.80	5.43	6.24	7.49	8.63
March	6.23	2.75	2.26	1.57	2.15	3.06	3.86	4.66	5.49	6.42	7.53	8.97	11.24	13.36
April	5.38	3.44	1.56	1.64	2.15	2.91	3.57	4.20	4.86	5.59	6.44	7.54	9.26	10.85
May	4.82	2.78	1.73	1.23	1.68	2.38	3.00	3.61	4.26	4.97	5.82	6.93	8.68	10.30
June	5.17	3.49	1.48	1.60	2.09	2.82	3.45	4.06	4.69	5.38	6.19	7.24	8.88	10.39
July	7.81	6.02	1.30	3.41	4.11	5.09	5.89	6.63	7.39	8.19	9.12	10.29	12.07	13.68
August	5.94	6.63	0.90	2.72	3.24	3.97	4.55	5.10	5.65	6.23	6.90	7.75	9.02	10.17
September	5.90	2.38	2.47	1.29	1.83	2.69	3.48	4.26	5.09	6.03	7.16	8.64	11.01	13.24
October	2.67	0.95	2.81	0.12	0.26	0.56	0.91	1.32	1.81	2.42	3.20	4.32	6.23	8.15
November	3.71	1.58	2.35	0.47	0.77	1.29	1.81	2.36	2.96	3.66	4.53	5.70	7.62	9.48
December	5.21	5.04	1.03	2.06	2.54	3.23	3.79	4.33	4.87	5.46	6.14	7.00	8.32	9.52

MISSOURI
STATUTE MILES
10 0 10 20 30 40
90TH MERIDIAN TIME ZONE
NORTHWEST PRAIRIE
NORTHEAST PRAIRIE
WEST CENTRAL PLAINS
EAST OZARKS
WEST OZARKS
BOOTHEEL
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage Non-recording; Recording; Both types
Double circle combinations indicate the availability of more detailed meteorological data
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29½° AND 45½°
USCOMM-ESSA-Asheville, N.C.
Revised 7-67

TABLE 65 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Springfield, Missouri

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.84	1.38	1.33	0.19	0.32	0.57	0.83	1.11	1.42	1.78	2.24	2.86	3.90	4.91
February	2.21	2.73	0.81	0.55	0.76	1.08	1.37	1.65	1.94	2.27	2.67	3.18	3.99	4.75
March	2.93	3.02	0.97	0.80	1.08	1.50	1.87	2.23	2.61	3.03	3.53	4.17	5.18	6.13
April	4.19	3.56	1.18	1.32	1.71	2.31	2.81	3.30	3.81	4.36	5.02	5.86	7.17	8.38
May	4.99	3.98	1.25	1.70	2.17	2.86	3.44	4.00	4.57	5.19	5.92	6.86	8.29	9.58
June	4.83	2.31	2.09	1.02	1.46	2.17	2.82	3.46	4.16	4.94	5.88	7.11	9.09	10.96
July	3.55	2.28	1.56	0.74	1.06	1.58	2.06	2.54	3.05	3.63	4.32	5.24	6.71	8.09
August	3.05	1.86	1.64	0.49	0.76	1.20	1.62	2.05	2.52	3.06	3.72	4.60	6.01	7.36
September	3.79	1.58	2.40	0.48	0.79	1.33	1.85	2.41	3.03	3.75	4.64	5.83	7.80	9.70
October	3.22	2.38	1.35	0.70	1.00	1.47	1.90	2.32	2.78	3.29	3.91	4.72	6.01	7.23
November	2.45	2.15	1.14	0.48	0.70	1.06	1.39	1.72	2.08	2.49	2.99	3.64	4.69	5.68
December	2.30	1.95	1.18	0.40	0.60	0.93	1.25	1.57	1.92	2.32	2.80	3.44	4.47	5.44

Division--Missouri West Ozarks Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.15	1.78	1.20	0.33	0.51	0.82	1.12	1.42	1.76	2.15	2.62	3.25	4.28	5.26
February	2.39	3.45	0.69	0.73	0.96	1.30	1.59	1.87	2.17	2.49	2.87	3.36	4.12	4.83
March	3.05	3.30	0.92	0.90	1.19	1.63	2.00	2.37	2.75	3.17	3.66	4.30	5.30	6.23
April	4.14	4.85	0.85	1.60	1.99	2.54	2.99	3.42	3.86	4.33	4.88	5.58	6.65	7.61
May	5.41	3.91	1.38	1.82	2.33	3.08	3.71	4.32	4.95	5.64	6.44	7.46	9.04	10.48
June	4.95	2.26	2.19	1.02	1.47	2.19	2.86	3.53	4.24	5.05	6.02	7.30	9.35	11.30
July	3.56	3.02	1.18	0.98	1.31	1.83	2.27	2.71	3.17	3.68	4.28	5.07	6.30	7.45
August	3.19	3.11	1.03	0.90	1.20	1.66	2.06	2.45	2.86	3.31	3.84	4.54	5.62	6.63
September	3.91	1.92	2.04	0.66	1.00	1.57	2.10	2.65	3.25	3.93	4.76	5.86	7.63	9.31
October	3.65	2.88	1.27	0.96	1.31	1.83	2.30	2.76	3.24	3.77	4.40	5.22	6.51	7.70
November	2.82	2.15	1.31	0.55	0.80	1.22	1.60	1.99	2.40	2.87	3.44	4.19	5.40	6.54
December	2.27	2.73	0.83	0.57	0.78	1.11	1.40	1.69	2.00	2.34	2.75	3.27	4.11	4.89

TABLE 66 - Precipitation Probabilities for Climatic Divisions

Missouri Northwest Prairie Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.40	2.29	0.61	0.29	0.42	0.63	0.81	1.00	1.21	1.43	1.71	2.07	2.64	3.19
February	1.33	3.89	0.34	0.45	0.57	0.75	0.91	1.06	1.22	1.38	1.58	1.83	2.22	2.58
March	2.37	2.91	0.81	0.63	0.85	1.19	1.50	1.79	2.10	2.45	2.85	3.38	4.21	4.97
April	3.21	6.93	0.46	1.50	1.78	2.16	2.47	2.76	3.05	3.36	3.71	4.15	4.81	5.40
May	4.50	10.82	0.42	2.51	2.86	3.33	3.70	4.03	4.36	4.71	5.11	5.59	6.31	6.95
June	5.43	3.80	1.43	1.79	2.30	3.06	3.70	4.32	4.96	5.66	6.48	7.52	9.15	10.63
July	3.43	3.21	1.07	0.99	1.32	1.81	2.23	2.65	3.08	3.56	4.12	4.85	6.00	7.06
August	4.06	3.96	1.03	1.38	1.76	2.32	2.79	3.25	3.72	4.23	4.83	5.59	6.76	7.82
September	3.53	2.08	1.70	0.66	0.97	1.49	1.97	2.45	2.98	3.58	4.30	5.25	6.79	8.26
October	2.63	2.05	1.28	0.48	0.72	1.10	1.46	1.82	2.22	2.67	3.21	3.93	5.09	6.20
November	1.93	1.41	1.37	0.20	0.35	0.62	0.89	1.18	1.50	1.88	2.36	3.01	4.09	5.14
December	1.54	3.08	0.50	0.43	0.57	0.80	0.99	1.18	1.37	1.59	1.85	2.18	2.71	3.20

Missouri Northeast Prairie Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.83	2.79	0.66	0.47	0.64	0.90	1.14	1.37	1.61	1.88	2.21	2.63	3.29	3.90
February	1.79	3.61	0.50	0.57	0.74	0.99	1.21	1.42	1.63	1.87	2.14	2.50	3.06	3.57
March	2.83	4.15	0.68	0.99	1.26	1.64	1.97	2.28	2.60	2.95	3.36	3.88	4.69	5.43
April	3.51	6.31	0.56	1.57	1.88	2.32	2.67	3.00	3.33	3.69	4.09	4.60	5.38	6.08
May	4.20	5.22	0.80	1.69	2.08	2.63	3.08	3.50	3.93	4.40	4.93	5.61	6.65	7.60
June	4.61	4.35	1.06	1.67	2.10	2.72	3.25	3.75	4.26	4.82	5.47	6.29	7.57	8.74
July	3.47	2.83	1.23	0.90	1.22	1.73	2.17	2.61	3.07	3.58	4.19	4.98	6.23	7.38
August	3.50	3.59	0.98	1.11	1.44	1.93	2.35	2.76	3.18	3.65	4.19	4.89	5.98	6.98
September	3.29	1.98	1.66	0.57	0.86	1.34	1.79	2.25	2.74	3.31	3.99	4.90	6.36	7.72
October	2.95	2.95	1.00	0.79	1.07	1.50	1.87	2.24	2.62	3.05	3.55	4.20	5.22	6.16
November	2.47	2.79	0.89	0.63	0.86	1.22	1.54	1.85	2.18	2.54	2.98	3.54	4.44	5.27
December	1.92	3.38	0.57	0.58	0.76	1.03	1.27	1.50	1.73	1.99	2.30	2.70	3.32	3.89

TABLE 67 - Precipitation Probabilities for Climatic Divisions

Missouri West Central Plains Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.76	2.46	0.71	0.40	0.56	0.82	1.05	1.28	1.52	1.80	2.13	2.56	3.25	3.90
February	1.89	3.68	0.51	0.61	0.79	1.05	1.28	1.50	1.72	1.97	2.26	2.63	3.21	3.74
March	2.61	3.92	0.66	0.88	1.12	1.48	1.79	2.08	2.39	2.71	3.10	3.59	4.35	5.04
April	3.66	4.57	0.80	1.37	1.71	2.20	2.61	3.00	3.40	3.83	4.33	4.97	5.96	6.85
May	4.93	6.15	0.80	2.18	2.62	3.23	3.73	4.20	4.67	5.17	5.75	6.48	7.59	8.59
June	5.07	2.42	2.10	1.12	1.59	2.34	3.01	3.68	4.40	5.20	6.16	7.43	9.44	11.35
July	3.38	2.61	1.29	0.81	1.13	1.62	2.06	2.50	2.96	3.47	4.09	4.90	6.17	7.37
August	3.84	2.99	1.28	1.04	1.41	1.96	2.44	2.92	3.42	3.97	4.62	5.46	6.77	7.97
September	4.01	1.76	2.28	0.60	0.94	1.52	2.07	2.65	3.28	4.01	4.90	6.09	8.03	9.88
October	3.40	2.33	1.46	0.72	1.03	1.53	1.98	2.44	2.92	3.47	4.13	4.99	6.38	7.68
November	2.41	1.87	1.29	0.39	0.60	0.95	1.28	1.62	1.99	2.42	2.94	3.63	4.74	5.80
December	1.91	3.28	0.58	0.56	0.74	1.02	1.25	1.48	1.72	1.99	2.30	2.70	3.33	3.91

Missouri East Ozarks Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.98	1.71	1.74	0.43	0.68	1.11	1.52	1.95	2.42	2.97	3.64	4.54	6.01	7.41
February	2.85	3.03	0.94	0.78	1.05	1.46	1.82	2.18	2.54	2.95	3.43	4.06	5.05	5.97
March	3.76	3.61	1.04	1.19	1.55	2.08	2.53	2.97	3.42	3.91	4.49	5.24	6.40	7.48
April	4.32	5.23	0.83	1.74	2.14	2.70	3.16	3.60	4.04	4.52	5.07	5.77	6.84	7.81
May	5.01	3.86	1.30	1.67	2.14	2.84	3.43	3.99	4.58	5.21	5.96	6.92	8.39	9.74
June	4.43	2.64	1.68	1.07	1.49	2.13	2.71	3.28	3.88	4.56	5.36	6.42	8.08	9.64
July	3.35	5.20	0.64	1.35	1.66	2.09	2.45	2.79	3.14	3.51	3.94	4.49	5.32	6.08
August	3.42	4.16	0.82	1.20	1.52	1.99	2.38	2.76	3.15	3.57	4.06	4.69	5.66	6.55
September	3.42	2.76	1.24	0.86	1.19	1.68	2.13	2.56	3.02	3.53	4.14	4.93	6.17	7.33
October	3.32	2.93	1.13	0.88	1.20	1.68	2.10	2.51	2.95	3.43	3.99	4.73	5.89	6.95
November	3.44	2.96	1.16	0.93	1.25	1.75	2.18	2.61	3.06	3.55	4.14	4.90	6.09	7.18
December	2.83	3.04	0.93	0.78	1.05	1.46	1.82	2.16	2.53	2.93	3.41	4.03	5.01	5.92

TABLE 68 - Precipitation Probabilities for Climatic Divisions

Missouri Bootheel Division

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0 40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.33	1.92	2.26	0.73	1.10	1.74	2.33	2.94	3.60	4.36	5.27	6.50	8.46	10.32
February	3.71	2.98	1.24	1.01	1.36	1.89	2.36	2.82	3.30	3.83	4.46	5.28	6.55	7.71
March	4.86	3.34	1.45	1.45	1.91	2.60	3.20	3.78	4.38	5.05	5.83	6.84	8.42	9.89
April	4.29	4.94	0.87	1.68	2.07	2.64	3.11	3.55	4.00	4.48	5.05	5.76	6.84	7.81
May	4.46	3.86	1.16	1.48	1.91	2.53	3.05	3.56	4.08	4.65	5.31	6.17	7.48	8.68
June	3.94	2.39	1.65	0.86	1.22	1.80	2.32	2.85	3.40	4.03	4.78	5.77	7.35	8.84
July	3.34	4.66	0.72	1.26	1.57	2.02	2.39	2.75	3.11	3.50	3.95	4.53	5.41	6.22
August	3.19	3.20	1.00	0.92	1.22	1.68	2.07	2.46	2.86	3.31	3.83	4.51	5.58	6.57
September	3.41	2.55	1.33	0.80	1.12	1.61	2.06	2.50	2.97	3.50	4.13	4.95	6.26	7.48
October	3.12	3.10	1.00	0.88	1.17	1.62	2.01	2.39	2.79	3.23	3.75	4.43	5.49	6.48
November	3.89	2.44	1.60	0.87	1.23	1.80	2.31	2.83	3.37	3.99	4.72	5.69	7.22	8.67
December	3.67	4.14	0.89	1.28	1.63	2.13	2.56	2.96	3.38	3.83	4.36	5.04	6.09	7.05

NEW YORK
STATUTE MILES
75 TH MERIDIAN TIME ZONE
ST. LAWRENCE VALLEY
CHAMPLAIN VALLEY
NORTHERN PLATEAU
GREAT LAKES
MOHAWK VALLEY
CENTRAL LAKES
EASTERN PLATEAU
HUDSON VALLEY
WESTERN PLATEAU
COASTAL
STATION LEGEND
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2 AND 45 1/2

TABLE 69 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Syracuse, New York

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.71	8.67	0.31	1.39	1.62	1.92	2.16	2.38	2.60	2.84	3.10	3.43	3.93	4.37
February	2.82	6.85	0.41	1.31	1.56	1.89	2.17	2.42	2.68	2.95	3.26	3.66	4.24	4.77
March	3.27	6.03	0.54	1.43	1.72	2.13	2.47	2.78	3.10	3.43	3.82	4.31	5.06	5.73
April	3.04	13.37	0.23	1.81	2.03	2.32	2.55	2.76	2.96	3.17	3.41	3.70	4.14	4.52
May	2.87	5.35	0.54	1.18	1.44	1.81	2.11	2.40	2.69	3.01	3.37	3.83	4.53	5.17
June	2.94	4.25	0.69	1.05	1.32	1.72	2.06	2.38	2.71	3.07	3.49	4.02	4.85	5.60
July	3.08	3.09	1.00	0.86	1.15	1.60	1.98	2.36	2.75	3.19	3.71	4.37	5.43	6.40
August	3.38	5.06	0.67	1.34	1.65	2.09	2.46	2.81	3.16	3.54	3.98	4.53	5.38	6.16
September	2.66	3.32	0.80	0.79	1.04	1.42	1.75	2.07	2.40	2.76	3.19	3.75	4.62	5.43
October	2.97	2.32	1.28	0.63	0.90	1.34	1.73	2.13	2.55	3.03	3.61	4.36	5.57	6.72
November	3.02	8.85	0.34	1.57	1.81	2.15	2.42	2.66	2.91	3.16	3.46	3.82	4.36	4.84
December	2.92	6.80	0.43	1.35	1.61	1.96	2.25	2.51	2.78	3.06	3.39	3.80	4.41	4.96

Division--New York Central Lakes Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.06	7.84	0.26	1.02	1.19	1.43	1.62	1.80	1.98	2.16	2.38	2.64	3.04	3.39
February	2.10	5.70	0.37	0.89	1.08	1.34	1.56	1.77	1.97	2.20	2.45	2.77	3.27	3.71
March	2.76	7.02	0.39	1.30	1.54	1.87	2.14	2.38	2.63	2.90	3.20	3.58	4.15	4.67
April	2.90	11.92	0.24	1.67	1.89	2.18	2.41	2.62	2.82	3.03	3.27	3.57	4.01	4.39
May	3.05	5.13	0.59	1.22	1.50	1.90	2.23	2.54	2.85	3.19	3.58	4.08	4.85	5.54
June	3.02	6.34	0.48	1.35	1.62	1.99	2.29	2.58	2.86	3.16	3.51	3.95	4.62	5.22
July	3.22	6.91	0.47	1.50	1.78	2.17	2.48	2.77	3.06	3.37	3.73	4.17	4.84	5.43
August	3.03	8.51	0.36	1.54	1.80	2.14	2.41	2.66	2.91	3.17	3.47	3.85	4.41	4.91
September	2.59	4.79	0.54	1.00	1.24	1.58	1.87	2.14	2.41	2.71	3.06	3.50	4.17	4.78
October	2.73	2.36	1.16	0.59	0.84	1.24	1.60	1.97	2.36	2.79	3.32	4.01	5.11	6.15
November	2.58	6.79	0.38	1.19	1.42	1.73	1.98	2.22	2.45	2.70	2.99	3.35	3.89	4.38
December	2.18	7.21	0.30	1.04	1.23	1.49	1.70	1.89	2.08	2.29	2.53	2.82	3.27	3.67

TABLE 70 - Precipitation Probabilities for Climatic Divisions

New York Western Plateau Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.33	6.27	0.37	1.04	1.24	1.53	1.77	1.98	2.20	2.44	2.71	3.05	3.57	4.04
February	2.26	6.73	0.34	1.04	1.24	1.51	1.74	1.94	2.15	2.37	2.62	2.94	3.42	3.85
March	3.06	7.49	0.41	1.48	1.74	2.10	2.39	2.65	2.92	3.21	3.53	3.93	4.55	5.09
April	3.26	8.70	0.38	1.68	1.95	2.31	2.60	2.87	3.14	3.42	3.74	4.14	4.73	5.26
May	3.64	5.14	0.71	1.46	1.79	2.27	2.66	3.03	3.41	3.82	4.29	4.88	5.79	6.62
June	3.61	8.38	0.43	1.83	2.13	2.54	2.87	3.17	3.47	3.79	4.15	4.60	5.28	5.88
July	3.64	8.31	0.44	1.84	2.15	2.56	2.89	3.19	3.50	3.82	4.18	4.64	5.32	5.94
August	3.40	7.75	0.44	1.67	1.96	2.36	2.67	2.96	3.26	3.57	3.92	4.36	5.03	5.62
September	3.11	5.69	0.55	1.32	1.60	2.00	2.32	2.63	2.93	3.26	3.64	4.13	4.86	5.52
October	2.83	2.63	1.07	0.68	0.95	1.36	1.73	2.09	2.48	2.91	3.42	4.10	5.16	6.16
November	2.93	7.33	0.40	1.41	1.66	2.01	2.28	2.54	2.80	3.08	3.39	3.79	4.38	4.91
December	2.50	8.66	0.29	1.29	1.49	1.77	2.00	2.20	2.41	2.62	2.87	3.18	3.63	4.04

New York Eastern Plateau Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.81	7.33	0.38	1.35	1.59	1.92	2.19	2.43	2.68	2.95	3.25	3.62	4.19	4.70
February	2.61	11.37	0.23	1.48	1.68	1.95	2.16	2.35	2.53	2.73	2.95	3.23	3.64	4.00
March	3.19	9.20	0.35	1.68	1.94	2.29	2.57	2.82	3.08	3.35	3.65	4.03	4.60	5.10
April	3.43	13.41	0.26	2.05	2.30	2.63	2.89	3.12	3.35	3.59	3.85	4.19	4.67	5.10
May	3.59	6.20	0.58	1.59	1.91	2.35	2.71	3.05	3.39	3.76	4.18	4.71	5.51	6.23
June	3.58	12.04	0.30	2.07	2.34	2.70	2.98	3.23	3.49	3.75	4.05	4.41	4.96	5.44
July	4.03	6.21	0.65	1.79	2.15	2.65	3.06	3.44	3.82	4.23	4.70	5.30	6.20	7.01
August	3.86	7.57	0.51	1.88	2.21	2.66	3.02	3.36	3.69	4.05	4.46	4.96	5.73	6.42
September	3.42	3.99	0.86	1.17	1.49	1.96	2.36	2.74	3.14	3.57	4.07	4.71	5.69	6.57
October	3.20	3.20	1.00	0.92	1.23	1.69	2.08	2.47	2.88	3.33	3.85	4.54	5.61	6.60
November	3.24	6.81	0.48	1.50	1.79	2.18	2.49	2.79	3.08	3.40	3.76	4.21	4.89	5.50
December	2.93	6.70	0.44	1.35	1.60	1.96	2.25	2.52	2.79	3.07	3.40	3.82	4.44	5.00

TABLE 71 - Precipitation Probabilities for Climatic Divisions

New York Northern Plateau Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.20	9.45	0.34	1.70	1.96	2.31	2.58	2.84	3.09	3.35	3.65	4.03	4.59	5.08
February	2.89	10.20	0.28	1.58	1.81	2.12	2.36	2.58	2.80	3.03	3.29	3.62	4.10	4.53
March	3.26	7.25	0.45	1.56	1.84	2.23	2.54	2.83	3.11	3.42	3.77	4.22	4.88	5.48
April	3.28	13.54	0.24	1.96	2.20	2.51	2.76	2.98	3.20	3.43	3.68	3.99	4.46	4.87
May	3.50	7.18	0.49	1.66	1.96	2.38	2.71	3.02	3.34	3.67	4.05	4.52	5.24	5.88
June	3.50	7.06	0.50	1.65	1.95	2.37	2.71	3.02	3.34	3.67	4.06	4.54	5.26	5.91
July	4.13	8.30	0.50	2.09	2.43	2.90	3.28	3.63	3.97	4.34	4.75	5.27	6.05	6.74
August	3.81	5.32	0.72	1.55	1.90	2.40	2.80	3.18	3.57	3.99	4.47	5.08	6.01	6.86
September	3.87	5.40	0.72	1.59	1.94	2.44	2.85	3.24	3.63	4.05	4.54	5.15	6.09	6.94
October	3.58	3.65	0.98	1.14	1.48	1.99	2.41	2.83	3.26	3.72	4.27	4.98	6.08	7.09
November	3.65	12.89	0.28	2.15	2.42	2.77	3.05	3.30	3.55	3.81	4.10	4.45	4.98	5.44
December	3.50	7.70	0.45	1.71	2.01	2.42	2.74	3.04	3.35	3.67	4.03	4.49	5.17	5.78

New York Coastal Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.62	6.30	0.57	1.61	1.94	2.38	2.75	3.08	3.43	3.79	4.21	4.74	5.54	6.26
February	3.22	10.46	0.31	1.78	2.03	2.37	2.64	2.88	3.12	3.38	3.66	4.02	4.55	5.02
March	4.23	8.75	0.48	2.19	2.53	3.01	3.38	3.73	4.07	4.44	4.85	5.36	6.13	6.81
April	3.80	6.05	0.63	1.66	2.00	2.48	2.87	3.23	3.59	3.99	4.43	5.00	5.86	6.64
May	3.49	3.82	0.91	1.15	1.48	1.97	2.38	2.77	3.18	3.63	4.15	4.82	5.86	6.81
June	3.31	3.45	0.96	1.01	1.33	1.80	2.20	2.59	3.00	3.44	3.96	4.64	5.69	6.67
July	3.74	5.34	0.70	1.53	1.87	2.36	2.75	3.13	3.51	3.92	4.39	4.99	5.90	6.73
August	4.47	3.76	1.19	1.46	1.88	2.51	3.04	3.55	4.08	4.66	5.33	6.20	7.55	8.78
September	3.78	2.52	1.50	0.87	1.22	1.78	2.27	2.77	3.29	3.88	4.58	5.50	6.97	8.34
October	3.28	2.99	1.10	0.89	1.20	1.67	2.09	2.49	2.92	3.38	3.94	4.66	5.78	6.80
November	3.94	3.79	1.04	1.30	1.67	2.22	2.69	3.14	3.60	4.11	4.70	5.47	6.65	7.73
December	3.59	4.44	0.81	1.31	1.65	2.13	2.54	2.93	3.32	3.75	4.25	4.89	5.87	6.76

TABLE 72 - Precipitation Probabilities for Climatic Divisions

New York Hudson Valley Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.02	7.00	0.43	1.42	1.68	2.04	2.33	2.60	2.87	3.16	3.49	3.91	4.54	5.10
February	2.64	15.81	0.17	1.65	1.83	2.07	2.25	2.42	2.58	2.75	2.94	3.17	3.51	3.81
March	3.28	5.93	0.55	1.42	1.71	2.13	2.46	2.78	3.09	3.44	3.83	4.32	5.06	5.73
April	3.54	7.33	0.48	1.69	2.00	2.42	2.75	3.07	3.38	3.71	4.09	4.56	5.28	5.92
May	3.59	5.05	0.71	1.42	1.75	2.22	2.61	2.98	3.35	3.76	4.23	4.82	5.73	6.55
June	3.62	8.52	0.43	1.85	2.15	2.56	2.89	3.19	3.48	3.80	4.16	4.61	5.28	5.88
July	4.11	7.41	0.55	1.98	2.33	2.82	3.21	3.57	3.93	4.31	4.75	5.30	6.13	6.87
August	3.76	5.85	0.64	1.61	1.95	2.43	2.82	3.18	3.54	3.94	4.39	4.96	5.82	6.60
September	3.73	3.70	1.01	1.20	1.56	2.08	2.53	2.96	3.40	3.89	4.46	5.19	6.33	7.37
October	3.09	2.90	1.07	0.82	1.11	1.56	1.95	2.34	2.74	3.19	3.73	4.42	5.51	6.51
November	3.54	4.92	0.72	1.38	1.71	2.18	2.56	2.93	3.30	3.70	4.17	4.76	5.66	6.46
December	3.13	4.33	0.72	1.13	1.42	1.85	2.20	2.54	2.89	3.27	3.71	4.28	5.14	5.94

New York Mohawk Valley Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.25	6.12	0.53	1.43	1.72	2.13	2.46	2.76	3.07	3.41	3.79	4.27	5.00	5.67
February	2.77	9.54	0.29	1.48	1.70	2.00	2.24	2.46	2.68	2.91	3.16	3.49	3.97	4.39
March	3.16	5.73	0.55	1.34	1.63	2.03	2.36	2.66	2.97	3.31	3.69	4.18	4.91	5.58
April	3.64	15.33	0.24	2.26	2.51	2.84	3.10	3.33	3.56	3.80	4.06	4.39	4.87	5.29
May	3.59	5.58	0.64	1.51	1.83	2.29	2.67	3.02	3.38	3.77	4.21	4.77	5.63	6.40
June	3.84	5.98	0.64	1.67	2.01	2.49	2.89	3.25	3.62	4.02	4.47	5.05	5.91	6.68
July	4.36	5.83	0.75	1.87	2.27	2.82	3.27	3.69	4.11	4.57	5.10	5.76	6.76	7.67
August	3.95	9.80	0.40	2.13	2.44	2.87	3.20	3.51	3.81	4.14	4.50	4.95	5.62	6.21
September	3.89	4.20	0.93	1.37	1.74	2.27	2.72	3.15	3.58	4.06	4.62	5.33	6.43	7.44
October	3.56	2.92	1.22	0.95	1.28	1.80	2.25	2.69	3.16	3.67	4.28	5.08	6.32	7.46
November	3.57	8.55	0.42	1.82	2.12	2.52	2.84	3.13	3.43	3.74	4.09	4.53	5.19	5.78
December	3.21	6.39	0.50	1.44	1.73	2.12	2.44	2.74	3.04	3.36	3.73	4.20	4.90	5.53

TABLE 73 - Precipitation Probabilities for Climatic Divisions

New York Champlain Valley Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.18	5.96	0.37	0.95	1.14	1.42	1.64	1.85	2.06	2.28	2.54	2.87	3.36	3.80
February	2.07	8.34	0.25	1.05	1.22	1.46	1.64	1.82	1.99	2.17	2.38	2.64	3.03	3.37
March	2.31	9.16	0.25	1.21	1.40	1.66	1.86	2.04	2.23	2.42	2.64	2.92	3.33	3.69
April	2.73	5.98	0.46	1.18	1.43	1.77	2.05	2.31	2.57	2.85	3.18	3.58	4.19	4.74
May	2.95	5.82	0.51	1.26	1.53	1.90	2.21	2.49	2.78	3.09	3.45	3.90	4.58	5.19
June	3.14	5.43	0.58	1.30	1.58	1.99	2.32	2.64	2.95	3.29	3.69	4.19	4.95	5.64
July	3.37	7.06	0.48	1.59	1.88	2.28	2.60	2.91	3.21	3.53	3.90	4.36	5.06	5.68
August	3.19	3.52	0.91	0.99	1.30	1.75	2.13	2.51	2.90	3.32	3.82	4.47	5.47	6.40
September	3.09	3.76	0.82	1.01	1.30	1.74	2.10	2.46	2.82	3.22	3.69	4.29	5.22	6.08
October	2.63	3.61	0.73	0.83	1.09	1.46	1.77	2.08	2.39	2.74	3.15	3.67	4.49	5.24
November	2.62	6.31	0.42	1.17	1.40	1.73	1.99	2.24	2.48	2.75	3.05	3.44	4.02	4.54
December	2.33	4.47	0.52	0.86	1.08	1.39	1.65	1.90	2.16	2.44	2.76	3.17	3.81	4.39

New York St. Lawrence Valley Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.28	7.72	0.30	1.12	1.31	1.58	1.79	1.99	2.18	2.39	2.63	2.93	3.37	3.77
February	2.21	9.34	0.24	1.17	1.35	1.59	1.79	1.96	2.14	2.32	2.53	2.79	3.18	3.52
March	2.39	7.08	0.34	1.13	1.34	1.62	1.85	2.06	2.28	2.51	2.77	3.09	3.59	4.03
April	2.98	8.63	0.35	1.53	1.78	2.11	2.38	2.62	2.86	3.12	3.42	3.78	4.33	4.82
May	3.22	5.22	0.62	1.30	1.60	2.02	2.36	2.69	3.02	3.38	3.79	4.31	5.11	5.84
June	2.86	5.63	0.51	1.21	1.47	1.83	2.13	2.41	2.69	3.00	3.35	3.80	4.47	5.08
July	3.45	6.63	0.52	1.58	1.88	2.30	2.64	2.96	3.27	3.61	4.00	4.49	5.23	5.89
August	3.26	3.69	0.88	1.05	1.36	1.81	2.20	2.58	2.97	3.39	3.89	4.53	5.52	6.44
September	3.36	4.27	0.79	1.20	1.52	1.97	2.36	2.72	3.10	3.51	3.99	4.59	5.53	6.40
October	3.08	3.83	0.80	1.02	1.31	1.74	2.10	2.45	2.81	3.21	3.67	4.26	5.17	6.00
November	2.92	7.46	0.39	1.41	1.66	2.01	2.28	2.54	2.79	3.07	3.38	3.76	4.35	4.87
December	2.64	7.58	0.35	1.28	1.51	1.82	2.07	2.30	2.53	2.77	3.05	3.40	3.92	4.39

TABLE 74 - Precipitation Probabilities for Climatic Divisions

New York Great Lakes Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.65	8.20	0.32	1.33	1.56	1.86	2.10	2.33	2.55	2.78	3.05	3.39	3.89	4.34
February	2.47	10.07	0.25	1.34	1.54	1.80	2.01	2.20	2.39	2.59	2.81	3.09	3.50	3.87
March	2.85	7.03	0.41	1.34	1.59	1.93	2.20	2.46	2.72	2.99	3.30	3.69	4.28	4.82
April	3.04	10.85	0.28	1.70	1.93	2.25	2.50	2.72	2.95	3.18	3.45	3.77	4.26	4.69
May	3.07	5.56	0.55	1.28	1.56	1.95	2.28	2.58	2.88	3.21	3.59	4.07	4.81	5.47
June	2.72	5.44	0.50	1.13	1.37	1.72	2.01	2.28	2.56	2.85	3.19	3.62	4.28	4.88
July	2.91	7.72	0.38	1.43	1.68	2.01	2.29	2.54	2.79	3.05	3.36	3.74	4.31	4.81
August	3.03	8.93	0.34	1.58	1.83	2.16	2.43	2.67	2.92	3.18	3.47	3.83	4.37	4.85
September	3.03	6.47	0.47	1.37	1.64	2.01	2.31	2.59	2.87	3.18	3.52	3.96	4.62	5.21
October	2.89	2.67	1.08	0.71	0.98	1.40	1.77	2.15	2.54	2.98	3.50	4.18	5.26	6.26
November	3.14	10.23	0.31	1.72	1.96	2.30	2.56	2.80	3.04	3.29	3.57	3.92	4.44	4.91
December	2.81	14.02	0.20	1.70	1.90	2.16	2.37	2.56	2.74	2.93	3.15	3.41	3.80	4.14

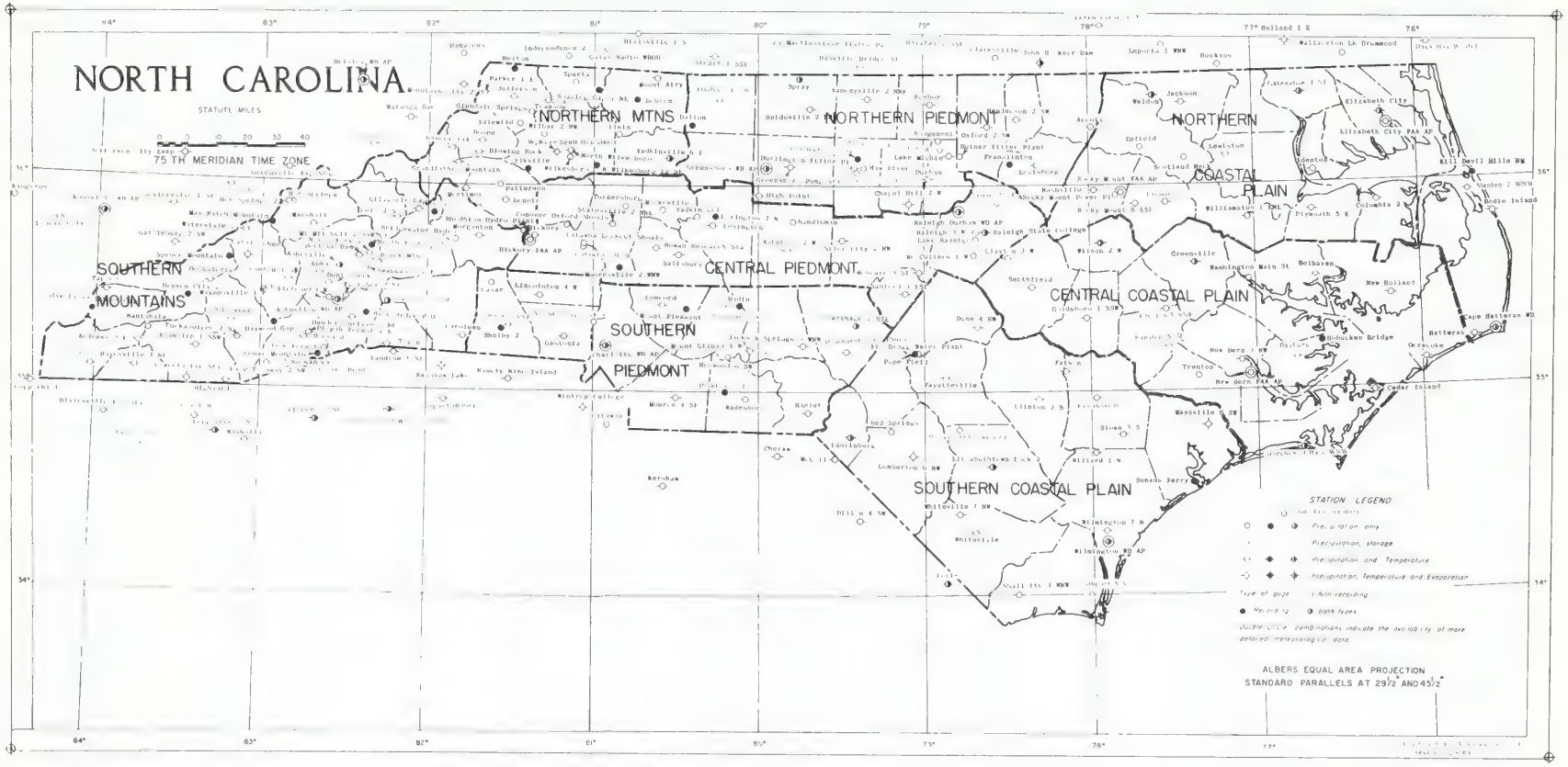
NORTH CAROLINA
STATUTE MILES
0 10 20 30 40
75 TH MERIDIAN TIME ZONE
NORTHERN MTNS
NORTHERN PIEDMONT
NORTHERN COASTAL PLAIN
SOUTHERN MOUNTAINS
CENTRAL PIEDMONT
CENTRAL COASTAL PLAIN
SOUTHERN PIEDMONT
SOUTHERN COASTAL PLAIN
STATION LEGEND
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29½° AND 45½°

TABLE 75 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Greensboro, North Carolina

Probabilities (Based on 37 years of Data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.40	4.43	0.77	1.24	1.56	2.02	2.40	2.77	3.15	3.55	4.02	4.63	5.56	6.41
February	3.38	5.18	0.65	1.36	1.67	2.11	2.48	2.82	3.17	3.54	3.98	4.53	5.37	6.14
March	3.71	5.04	0.74	1.47	1.81	2.30	2.70	3.08	3.47	3.89	4.37	4.99	5.93	6.78
April	3.28	5.89	0.56	1.41	1.71	2.12	2.46	2.77	3.09	3.43	3.83	4.32	5.07	5.74
May	3.18	2.94	1.08	0.85	1.15	1.61	2.01	2.41	2.83	3.29	3.83	4.54	5.64	6.66
June	3.73	2.95	1.27	1.00	1.35	1.89	2.36	2.83	3.31	3.85	4.49	5.32	6.61	7.80
July	4.71	4.96	0.95	1.84	2.28	2.90	3.41	3.89	4.39	4.92	5.53	6.31	7.50	8.56
August	4.54	2.77	1.64	1.15	1.58	2.24	2.82	3.40	4.01	4.68	5.49	6.53	8.18	9.72
September	3.54	1.35	2.62	0.35	0.60	1.09	1.58	2.11	2.72	3.43	4.32	5.54	7.57	9.55
October	2.69	1.47	1.83	0.30	0.51	0.89	1.26	1.66	2.11	2.63	3.28	4.17	5.63	7.05
November	2.68	2.31	1.16	0.56	0.81	1.20	1.56	1.92	2.30	2.73	3.25	3.94	5.04	6.07
December	3.19	3.42	0.93	0.97	1.27	1.73	2.12	2.49	2.89	3.32	3.82	4.48	5.50	6.45

Division--North Carolina Northern Piedmont Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.52	4.68	0.75	1.33	1.66	2.13	2.52	2.89	3.27	3.68	4.16	4.76	5.69	6.54
February	3.51	5.71	0.62	1.49	1.81	2.25	2.62	2.96	3.31	3.68	4.11	4.65	5.47	6.21
March	3.89	8.33	0.47	1.97	2.29	2.74	3.09	3.41	3.74	4.08	4.47	4.96	5.69	6.34
April	3.62	8.01	0.45	1.80	2.11	2.52	2.85	3.16	3.47	3.79	4.16	4.62	5.32	5.94
May	3.41	4.49	0.76	1.26	1.58	2.04	2.42	2.78	3.16	3.56	4.03	4.63	5.56	6.41
June	4.01	6.26	0.64	1.78	2.14	2.64	3.04	3.42	3.80	4.20	4.67	5.26	6.15	6.95
July	5.20	7.04	0.74	2.45	2.90	3.52	4.02	4.49	4.95	5.45	6.02	6.74	7.81	8.78
August	4.68	4.45	1.05	1.72	2.16	2.79	3.32	3.82	4.34	4.90	5.55	6.38	7.66	8.83
September	3.71	2.35	1.58	0.80	1.14	1.68	2.17	2.67	3.20	3.79	4.51	5.45	6.95	8.36
October	2.77	2.07	1.34	0.51	0.76	1.17	1.54	1.92	2.34	2.81	3.38	4.13	5.34	6.50
November	3.05	2.34	1.30	0.65	0.93	1.38	1.79	2.19	2.63	3.12	3.71	4.48	5.72	6.89
December	3.24	3.59	0.90	1.02	1.33	1.79	2.18	2.55	2.95	3.37	3.88	4.53	5.53	6.46

TABLE 76 - Precipitation Probabilities for Climatic Divisions

North Carolina Southern Mountains Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.75	4.58	1.04	1.78	2.22	2.86	3.39	3.89	4.41	4.97	5.62	6.45	7.72	8.88
February	4.46	1.86	2.40	0.72	1.10	1.75	2.36	3.00	3.69	4.48	5.44	6.72	8.79	10.75
March	5.68	9.33	0.61	3.00	3.47	4.09	4.58	5.03	5.48	5.95	6.49	7.16	8.16	9.05
April	4.54	8.27	0.55	2.29	2.67	3.18	3.60	3.98	4.36	4.76	5.21	5.78	6.64	7.40
May	3.88	6.01	0.65	1.69	2.04	2.53	2.92	3.29	3.67	4.07	4.53	5.11	6.00	6.80
June	4.54	6.75	0.67	2.09	2.49	3.04	3.48	3.90	4.31	4.76	5.26	5.90	6.86	7.72
July	5.82	8.79	0.66	3.01	3.49	4.14	4.65	5.13	5.60	6.10	6.67	7.37	8.42	9.36
August	5.49	4.99	1.10	2.16	2.67	3.39	3.99	4.55	5.12	5.74	6.46	7.36	8.74	9.96
September	3.84	3.23	1.19	1.11	1.48	2.03	2.51	2.97	3.46	3.99	4.62	5.44	6.71	7.90
October	3.63	1.57	2.31	0.46	0.75	1.26	1.77	2.30	2.90	3.59	4.44	5.59	7.47	9.29
November	3.57	3.70	0.97	1.15	1.49	1.99	2.42	2.83	3.26	3.72	4.27	4.97	6.05	7.06
December	4.59	3.40	1.35	1.39	1.82	2.48	3.04	3.58	4.15	4.77	5.51	6.45	7.93	9.30

North Carolina Northern Mountains Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.39	5.48	0.71	1.61	1.97	2.47	2.88	3.26	3.65	4.07	4.56	5.17	6.11	6.96
February	4.05	7.00	0.58	1.90	2.26	2.74	3.13	3.50	3.86	4.25	4.70	5.25	6.10	6.86
March	4.90	9.63	0.51	2.62	3.01	3.54	3.96	4.35	4.73	5.13	5.59	6.15	6.99	7.74
April	4.22	8.03	0.53	2.10	2.46	2.94	3.33	3.69	4.04	4.42	4.86	5.39	6.20	6.93
May	4.13	6.52	0.63	1.87	2.24	2.74	3.15	3.54	3.92	4.33	4.80	5.39	6.29	7.09
June	4.42	6.28	0.70	1.97	2.36	2.91	3.36	3.77	4.19	4.64	5.15	5.80	6.78	7.67
July	5.70	9.06	0.63	2.98	3.44	4.07	4.57	5.03	5.49	5.97	6.52	7.20	8.21	9.12
August	5.50	3.66	1.50	1.76	2.28	3.05	3.71	4.35	5.01	5.73	6.57	7.66	9.35	10.90
September	4.01	2.69	1.49	0.99	1.36	1.95	2.47	2.98	3.52	4.13	4.85	5.79	7.28	8.66
October	3.53	1.87	1.89	0.57	0.88	1.39	1.87	2.37	2.92	3.54	4.30	5.31	6.94	8.49
November	3.45	3.22	1.07	1.00	1.33	1.82	2.25	2.67	3.10	3.58	4.15	4.88	6.03	7.10
December	3.75	3.78	0.99	1.23	1.58	2.11	2.55	2.98	3.42	3.90	4.47	5.19	6.32	7.35

TABLE 77 - Precipitation Probabilities for Climatic Divisions

North Carolina Central Piedmont Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.73	4.63	0.80	1.40	1.75	2.25	2.66	3.06	3.46	3.90	4.41	5.05	6.04	6.95
February	3.73	5.09	0.73	1.49	1.83	2.32	2.72	3.10	3.49	3.91	4.39	5.01	5.95	6.80
March	4.25	8.70	0.49	2.19	2.54	3.01	3.39	3.74	4.08	4.45	4.87	5.38	6.16	6.85
April	3.72	9.40	0.40	1.97	2.27	2.68	3.00	3.29	3.59	3.90	4.25	4.68	5.33	5.91
May	3.60	4.41	0.82	1.31	1.65	2.14	2.55	2.94	3.33	3.77	4.27	4.91	5.90	6.81
June	4.02	5.12	0.79	1.61	1.98	2.50	2.94	3.35	3.76	4.21	4.73	5.39	6.40	7.32
July	5.60	7.85	0.71	2.76	3.24	3.88	4.40	4.88	5.36	5.87	6.44	7.16	8.24	9.20
August	4.93	5.57	0.89	2.06	2.51	3.14	3.66	4.15	4.64	5.17	5.78	6.55	7.72	8.78
September	3.86	2.44	1.58	0.86	1.22	1.78	2.29	2.80	3.34	3.95	4.68	5.64	7.16	8.60
October	2.98	2.10	1.42	0.56	0.83	1.27	1.67	2.08	2.52	3.02	3.63	4.44	5.73	6.96
November	3.09	2.40	1.29	0.68	0.96	1.42	1.83	2.24	2.67	3.17	3.75	4.53	5.76	6.93
December	3.49	3.48	1.00	1.08	1.41	1.90	2.32	2.74	3.16	3.63	4.18	4.89	5.99	7.02

North Carolina Southern Piedmont Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.64	4.90	0.74	1.42	1.76	2.24	2.63	3.01	3.39	3.81	4.29	4.90	5.82	6.66
February	3.79	4.17	0.91	1.33	1.69	2.21	2.64	3.06	3.49	3.96	4.50	5.20	6.27	7.26
March	4.40	8.36	0.53	2.23	2.59	3.09	3.49	3.86	4.22	4.61	5.05	5.60	6.42	7.16
April	3.81	7.68	0.50	1.86	2.19	2.63	2.99	3.31	3.64	3.99	4.39	4.89	5.64	6.31
May	3.33	4.18	0.80	1.17	1.49	1.94	2.33	2.69	3.07	3.48	3.96	4.57	5.52	6.38
June	4.10	6.82	0.60	1.90	2.26	2.76	3.16	3.53	3.90	4.30	4.76	5.33	6.19	6.96
July	5.67	7.93	0.71	2.81	3.29	3.94	4.46	4.94	5.42	5.93	6.51	7.24	8.32	9.27
August	4.94	6.67	0.74	2.27	2.70	3.30	3.79	4.24	4.69	5.18	5.74	6.43	7.49	8.44
September	3.87	2.32	1.67	0.82	1.18	1.74	2.26	2.78	3.33	3.96	4.71	5.70	7.28	8.77
October	2.92	1.79	1.63	0.45	0.70	1.12	1.52	1.94	2.40	2.92	3.56	4.42	5.81	7.14
November	2.88	2.16	1.33	0.56	0.82	1.24	1.63	2.02	2.45	2.92	3.50	4.27	5.49	6.66
December	3.49	3.43	1.02	1.06	1.40	1.89	2.32	2.73	3.16	3.63	4.19	4.91	6.02	7.06

TABLE 78 - Precipitation Probabilities for Climatic Divisions

North Carolina Southern Coastal Plain Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.20	5.33	0.60	1.31	1.60	2.01	2.36	2.68	3.00	3.35	3.76	4.27	5.05	5.76
February	3.64	3.84	0.95	1.21	1.55	2.06	2.49	2.90	3.32	3.79	4.33	5.03	6.11	7.09
March	3.92	5.95	0.66	1.70	2.05	2.54	2.95	3.32	3.70	4.11	4.57	5.16	6.04	6.83
April	3.26	4.56	0.72	1.21	1.52	1.96	2.32	2.67	3.02	3.41	3.86	4.43	5.30	6.11
May	3.59	5.18	0.69	1.44	1.77	2.24	2.62	2.99	3.36	3.76	4.22	4.80	5.70	6.51
June	4.85	5.79	0.84	2.08	2.51	3.13	3.63	4.10	4.57	5.09	5.67	6.41	7.54	8.55
July	6.94	6.47	1.07	3.14	3.75	4.60	5.29	5.94	6.58	7.28	8.07	9.07	10.58	11.94
August	5.86	9.68	0.60	3.14	3.61	4.24	4.74	5.20	5.66	6.14	6.68	7.35	8.35	9.24
September	5.11	3.41	1.50	1.55	2.04	2.76	3.39	3.99	4.62	5.32	6.13	7.18	8.82	10.34
October	2.80	1.55	1.81	0.35	0.57	0.96	1.35	1.77	2.23	2.76	3.42	4.31	5.78	7.21
November	3.01	2.44	1.23	0.67	0.95	1.40	1.79	2.19	2.61	3.09	3.66	4.41	5.60	6.72
December	3.15	3.46	0.91	0.97	1.27	1.71	2.10	2.47	2.85	3.28	3.78	4.42	5.42	6.35

North Carolina Central Coastal Plain Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.52	6.13	0.58	1.55	1.87	2.31	2.66	3.00	3.33	3.70	4.11	4.63	5.43	6.14
February	3.78	4.71	0.80	1.44	1.79	2.29	2.71	3.11	3.51	3.95	4.46	5.11	6.10	7.00
March	3.75	10.04	0.37	2.04	2.34	2.74	3.05	3.34	3.63	3.93	4.27	4.69	5.32	5.89
April	3.40	5.87	0.58	1.46	1.77	2.20	2.55	2.87	3.21	3.56	3.97	4.48	5.26	5.96
May	3.71	6.46	0.57	1.68	2.00	2.46	2.83	3.17	3.52	3.89	4.31	4.85	5.65	6.38
June	4.86	5.31	0.91	1.98	2.43	3.05	3.57	4.06	4.55	5.09	5.70	6.48	7.68	8.76
July	7.00	5.73	1.22	2.97	3.61	4.50	5.22	5.91	6.59	7.34	8.19	9.26	10.90	12.37
August	6.08	6.98	0.87	2.85	3.38	4.11	4.70	5.24	5.79	6.37	7.04	7.87	9.12	10.22
September	5.28	3.50	1.51	1.63	2.13	2.88	3.52	4.14	4.78	5.49	6.32	7.39	9.06	10.60
October	3.07	1.85	1.66	0.49	0.76	1.20	1.63	2.06	2.54	3.08	3.75	4.63	6.06	7.41
November	3.41	2.86	1.19	0.89	1.21	1.71	2.14	2.57	3.02	3.52	4.11	4.88	6.09	7.21
December	3.40	3.88	0.88	1.14	1.46	1.93	2.33	2.72	3.11	3.54	4.05	4.70	5.70	6.60

TABLE 79 - Precipitation Probabilities for Climatic Divisions

North Carolina Northern Coastal Plain Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.59	6.41	0.56	1.62	1.94	2.38	2.74	3.07	3.41	3.77	4.18	4.70	5.49	6.20
February	3.70	4.76	0.78	1.42	1.76	2.25	2.66	3.05	3.45	3.87	4.37	5.00	5.96	6.84
March	3.76	8.84	0.43	1.95	2.26	2.67	3.01	3.31	3.62	3.94	4.30	4.76	5.43	6.03
April	3.29	7.03	0.47	1.55	1.83	2.22	2.54	2.84	3.13	3.45	3.81	4.26	4.94	5.55
May	3.51	5.34	0.66	1.43	1.76	2.21	2.58	2.93	3.29	3.68	4.12	4.68	5.54	6.32
June	4.27	5.72	0.75	1.81	2.20	2.74	3.18	3.60	4.02	4.47	4.99	5.65	6.65	7.55
July	6.19	6.39	0.97	2.78	3.33	4.09	4.71	5.29	5.87	6.49	7.20	8.10	9.46	10.69
August	5.86	6.04	0.97	2.56	3.08	3.82	4.41	4.97	5.54	6.14	6.84	7.71	9.04	10.25
September	4.68	4.31	1.08	1.68	2.12	2.76	3.29	3.80	4.32	4.89	5.55	6.39	7.69	8.89
October	3.02	2.16	1.39	0.59	0.86	1.30	1.71	2.12	2.57	3.07	3.67	4.47	5.76	6.98
November	3.29	2.72	1.21	0.82	1.13	1.61	2.03	2.45	2.89	3.39	3.97	4.74	5.95	7.08
December	3.29	4.87	0.68	1.28	1.58	2.02	2.38	2.72	3.07	3.44	3.88	4.43	5.27	6.03

OHIO
STATUTE MILES
10 0 10 20 30 40
NORTHWEST
NORTH CENTRAL
NORTHEAST
WEST CENTRAL
CENTRAL
CENTRAL HILLS
NORTHEAST HILLS
SOUTHWEST
SOUTHEAST
SOUTH CENTRAL
Coldwater St Sch
Hillsdale
Adrian 2 NNE
Monroe Swg Pl
Toledo Sewage
Toledo Blade
Toledo WB Express AP
Lyons High School
Put in Bay Perry Mon
Sandusky
Cleveland Easterly Swg
Cleveland WB Airport
Conneaut Wtr Wks
Ashtabula
Painesville 4 NW
Painesville Hiway Dept
Willoughby 4 N
Conneautville
Dorset
Chardon
South New Lyme
Jamestown 2 NW
Greenville
Burton 1 W
Elyria 3 E
Oberlin
Akron Sewage Works
Ravenna 2 S
Chippewa Lake
Berlin Dam
New Castle 1 N
Canfield 1 S
Columbiana Swg Plant
Mosquito Creek Dam
Youngstown WB AP
Warren
Warren Ohio Edison
Farrell Sharon
Mineral Ridge Wtr Wks
Akron Canton WB AP
Louisville
Canton Repository
Canton Highway Dept
Marshallville 1 SSW
Wooster Exp Sta
Mohicanville Dam
Bolivar Dam
Millport 2 NW
Montgomery L & D
Carrollton 2 NW
Dover Dam
Atwood Dam
Beach City Dam
Millersburg 1 W
New Philadelphia
New Philadelphia 1 A
Uhrichsville
New Cumberland
Wolfdum
Steubenville Wtr Wks
Tappan Dam
Clendening Dam
Piedmont Dam
Wellsburg 3 NE
Claysville 1 W
Wheeling Kirkwood Dam 12
Mc Mechen Dam 13
Cambridge Swg Pl
Middlebourne
Norwich 1 E
Senecaville Dam
Barnesville Water Wks
Moundsville
Summerfield 3 NE
Clarington Lock 14
Caldwell 6 NW
Caldwell Eloc + Wtr Wks
New Martinsville
Duffy Dam 15
Mc Connelsville Lock 7
Tom Jenkins Dam
New Matamoras Dam 16
Marietta Lock 15
Marietta Swg Tnl Pl
Parkersburg FAA AP
Parkersburg WB City
Washington Dam 19
Belleville Dam 20
Cairo 3 S
West Union
Ellon
Portland Dam 21
Ravenswood Dam 22
Creston 1 SSW
Racine Dam 23
Point Pleasant 5 NNE
Gallipolis 5 W
Ripley
Spencer
Hogsett Gallipolis Dam
Winfield Locks
Waterloo
Ironton
Ashland
Huntington Fed Bldg
Huntington WB AP
Grayson 1 SE
Manlin
Wayne 2
Branchland
Louisa 2
Farmers 1 WNW
Fleming sburg 1 SSW
Williamstown 3 NW
Falmouth 5 WNW
Maysville Swg Pit
Vanceburg
Lloyd Greenup Dam
Portsmouth
Portsmouth US Grant Br
Higginsport
Ripley Exp Farm
Chilo Meldahl Dam
Pebbles
Williamsburg
Covington WB AP
Cincinnati Cherry Grove
Cincinnati Lunken FAA AP
Cincinnati WB City
Cincinnati Abbe Obs
Cincinnati White Oak
Chariot
Fernbank Cin
Milford
St Martin Ursuline Sch
Hillsboro 5 S
Piketon AEC Pump Sta
Jackson 2 NW
Waverly
Chillicothe
Greenfield Swg Pl
W Fork Mill Creek Dam
Hamilton
Hamilton Wtr Wks S
Kings Mills
Middletown
Franklin
Oxford 3 ESE
Liberty 3 SSE
Carrollton Dam
Miamisburg
Xenia Treatment Pl
Xenia 5 SSE
Eaton
Richmond Wtr Wks
West Manchester 3 SW
Dayton WB AP
Dayton
Tipp City
New Carlisle
Springfield New Wtr Wk
Springfield Sewage Pl
Springfield
Pleasant Hill
Greenville Swg Pl
Piqua
Piqua Swg Pl
Urbana Swg Pl
Winchester AP
Versailles
Sidney 2 W
Sidney 1 S
Sidney Highway Dept
Bellefontaine Sewage
Russells Point
Huntsville 3 N
Celina 3 NE
St Marys 3 W
Lakeview 2 NE
Rockford Swg Pl
Lima Wtr Wks
Lima Sewage Pl
Van Wert
Decatur 1 N
Wapakoneta 7
Bono
Grover Hill
Paulding 1 NE
Defiance
Defiance-Toledo Edison
Napoleon Wtr Wks
Edgerton
Stryker
Montpelier
Waterloo
Angola
Fremont WSW
Findlay FAA AP
Findlay Swg Pl
Pandora 2 NE
Woodsville 3 ENE
Hoytville 2 NE
Fostoria
End Substa
Tiffin
Norwalk Swg Pl
Norwalk Highway Dept
Fremont
Bowling Green Swg Pl
Wauseon Waste Wtr Plt
Toledo WB Express AP
Lyons High School
Upper Sandusky
Upper Sandusky Wtr Wks
Bucyrus
Mansfield WB AP
Mansfield 6 W
Charles Mill Dam
Ashland
Galion Wtr Wks
Marion Wtr Wks
La Rue
Mc Gilead Lakes Park
Pleasant Hill Dam
Fredericktown
Greer
Gambier
Prospect
Delaware
Delaware Dam
Marysville
Conterburg
Utica
Irwin
Westerville Wtr Pl
Columbus Univ Farm
Columbus WB AP
Columbus WB City
Columbus Sullivant Ave
Columbus Valley Cross
Alexandria 4 WSW
Newark Wtr Wks
Buckeye Lake
Dillon Dam
Zanesville Swg Pl
Zanesville FAA AP
Roseville
Philo 3 SW
Lithopolis 2 S
Lancaster 2 NW
Lancaster Wtr Wks
New Lexington 2 NW
Sedalia
Mt Sterling Gas Pump St
Circleville
Sayre
New Straitsville
Enterprise
Logan Highway Dept
Laurelville
Washington Court House
Wilmington
Wilmington Wtr Pl
Nelsonville 1 WNW
Athens 5 NW
Athens
Amesville
Mc Arthur
Carpenter
Bourneville
Cabanaville
Mc Connelsville
Mohawk Dam
Coshocton Agr Exch Sta
Coshocton Swg Pl
Conesville 1 NNE
Wills Creek Dam
Cooperdale
Tom Jenkins Dam
Logan Highway Dept
Laurelville
Washington Court House
Wilmington
Wilmington Wtr Pl
Greenfield Swg Pl
Chillicothe
Bourneville
Waverly
Piketon AEC Pump Sta
Jackson 2 NW
Hillsboro 5 S
Mc Arthur
Carpenter
Cabanaville
Athens
Nelsonville 1 WNW
Athens 5 NW
Amesville

TABLE 80 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Columbus, Ohio

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.86	1.91	1.50	0.48	0.73	1.14	1.54	1.94	2.38	2.88	3.48	4.29	5.59	6.82
February	2.33	4.24	0.55	0.83	1.05	1.37	1.63	1.89	2.15	2.44	2.77	3.19	3.85	4.45
March	3.36	3.02	1.11	0.92	1.24	1.73	2.15	2.57	3.00	3.48	4.05	4.79	5.96	7.04
April	3.60	5.34	0.67	1.47	1.80	2.27	2.65	3.01	3.37	3.77	4.22	4.80	5.68	6.48
May	3.68	3.63	1.01	1.17	1.52	2.04	2.48	2.91	3.35	3.83	4.40	5.13	6.27	7.32
June	3.81	3.99	0.96	1.30	1.66	2.19	2.63	3.06	3.49	3.97	4.53	5.24	6.33	7.32
July	3.88	4.40	0.88	1.41	1.78	2.30	2.74	3.16	3.59	4.06	4.60	5.30	6.36	7.34
August	2.92	3.35	0.87	0.87	1.15	1.57	1.92	2.27	2.63	3.03	3.50	4.11	5.06	5.94
September	2.56	3.74	0.68	0.83	1.08	1.43	1.74	2.03	2.33	2.67	3.05	3.55	4.33	5.04
October	1.91	1.99	0.96	0.34	0.51	0.78	1.05	1.31	1.60	1.93	2.33	2.85	3.70	4.49
November	2.44	3.66	0.67	0.78	1.02	1.36	1.65	1.93	2.22	2.55	2.92	3.40	4.15	4.84
December	2.32	4.26	0.54	0.83	1.04	1.36	1.62	1.88	2.14	2.42	2.75	3.17	3.82	4.42

Division--Ohio Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.98	2.32	1.28	0.63	0.91	1.34	1.74	2.14	2.57	3.05	3.62	4.38	5.60	6.75
February	2.37	4.10	0.58	0.82	1.05	1.37	1.65	1.91	2.18	2.48	2.82	3.26	3.95	4.57
March	3.62	3.24	1.12	1.05	1.40	1.92	2.37	2.80	3.26	3.76	4.35	5.12	6.32	7.44
April	3.76	5.42	0.69	1.55	1.89	2.38	2.78	3.15	3.53	3.94	4.41	5.01	5.92	6.74
May	3.65	4.82	0.76	1.41	1.74	2.23	2.63	3.01	3.40	3.82	4.30	4.92	5.86	6.71
June	4.00	5.16	0.78	1.61	1.98	2.50	2.93	3.33	3.75	4.19	4.71	5.36	6.36	7.27
July	3.91	8.09	0.48	1.95	2.28	2.73	3.09	3.42	3.75	4.10	4.49	4.99	5.74	6.40
August	3.15	4.66	0.68	1.19	1.48	1.90	2.25	2.59	2.92	3.29	3.72	4.26	5.10	5.86
September	2.74	4.39	0.62	1.00	1.25	1.62	1.93	2.23	2.53	2.86	3.24	3.73	4.49	5.18
October	2.08	2.12	0.98	0.40	0.59	0.89	1.17	1.46	1.77	2.12	2.54	3.10	3.99	4.85
November	2.47	4.86	0.51	0.96	1.18	1.51	1.78	2.04	2.30	2.58	2.91	3.32	3.95	4.52
December	2.40	4.01	0.60	0.82	1.05	1.38	1.66	1.92	2.20	2.50	2.85	3.30	4.00	4.64

TABLE 81 - Precipitation Probabilities for Climatic Divisions

Ohio Northwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.31	2.39	0.97	0.50	0.72	1.06	1.36	1.67	1.99	2.36	2.80	3.38	4.31	5.18
February	1.99	3.62	0.55	0.63	0.82	1.10	1.34	1.57	1.81	2.07	2.38	2.77	3.39	3.95
March	2.92	5.16	0.56	1.17	1.44	1.82	2.13	2.43	2.73	3.05	3.43	3.90	4.63	5.30
April	3.34	5.43	0.62	1.38	1.68	2.11	2.47	2.80	3.14	3.50	3.92	4.45	5.26	5.99
May	3.45	4.16	0.83	1.21	1.54	2.01	2.41	2.79	3.18	3.60	4.10	4.73	5.72	6.62
June	3.84	6.83	0.56	1.78	2.12	2.58	2.96	3.31	3.66	4.03	4.46	4.99	5.80	6.51
July	3.27	8.20	0.40	1.65	1.92	2.29	2.59	2.87	3.14	3.43	3.76	4.17	4.79	5.35
August	2.79	8.73	0.32	1.44	1.67	1.98	2.23	2.46	2.69	2.93	3.20	3.54	4.05	4.50
September	2.75	4.31	0.64	0.99	1.25	1.62	1.94	2.24	2.54	2.88	3.27	3.76	4.53	5.23
October	2.45	2.20	1.11	0.49	0.71	1.07	1.40	1.73	2.09	2.49	2.98	3.62	4.66	5.63
November	2.25	5.53	0.41	0.94	1.14	1.43	1.67	1.89	2.12	2.36	2.64	2.99	3.53	4.02
December	2.00	3.47	0.58	0.62	0.81	1.09	1.33	1.57	1.81	2.08	2.40	2.80	3.44	4.03

Ohio North Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.39	2.67	0.90	0.59	0.81	1.16	1.47	1.78	2.10	2.46	2.89	3.46	4.35	5.18
February	2.03	4.56	0.45	0.76	0.95	1.22	1.45	1.67	1.89	2.13	2.41	2.76	3.31	3.81
March	2.90	5.14	0.56	1.16	1.43	1.81	2.12	2.42	2.72	3.04	3.41	3.89	4.61	5.27
April	3.31	6.32	0.52	1.48	1.77	2.18	2.51	2.82	3.14	3.47	3.85	4.34	5.07	5.73
May	3.29	4.78	0.69	1.26	1.57	2.01	2.37	2.71	3.06	3.44	3.88	4.44	5.30	6.08
June	3.77	4.68	0.81	1.43	1.78	2.28	2.70	3.10	3.51	3.95	4.46	5.11	6.10	7.01
July	3.23	7.59	0.43	1.57	1.85	2.23	2.53	2.81	3.09	3.39	3.73	4.16	4.80	5.37
August	3.13	8.45	0.37	1.59	1.85	2.20	2.49	2.75	3.00	3.28	3.59	3.98	4.56	5.08
September	2.73	5.06	0.54	1.08	1.34	1.69	1.99	2.27	2.55	2.86	3.22	3.67	4.36	4.99
October	2.19	2.70	0.81	0.54	0.75	1.07	1.35	1.63	1.93	2.25	2.65	3.16	3.97	4.72
November	2.28	5.22	0.44	0.92	1.13	1.43	1.67	1.90	2.13	2.39	2.68	3.05	3.61	4.13
December	2.04	4.51	0.45	0.75	0.94	1.22	1.45	1.67	1.89	2.13	2.41	2.77	3.32	3.82

TABLE 82 - Precipitation Probabilities for Climatic Divisions

Ohio Northeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.69	3.31	0.81	0.80	1.05	1.43	1.77	2.09	2.42	2.79	3.23	3.79	4.67	5.49
February	2.29	5.57	0.41	0.96	1.17	1.46	1.70	1.93	2.16	2.40	2.68	3.04	3.59	4.08
March	3.17	6.41	0.49	1.43	1.71	2.10	2.41	2.71	3.00	3.32	3.68	4.14	4.84	5.46
April	3.49	6.81	0.51	1.62	1.92	2.35	2.69	3.00	3.32	3.66	4.05	4.54	5.27	5.93
May	3.50	5.13	0.68	1.40	1.72	2.18	2.55	2.91	3.27	3.66	4.11	4.69	5.56	6.36
June	3.63	9.55	0.38	1.94	2.23	2.62	2.94	3.22	3.50	3.80	4.14	4.56	5.19	5.75
July	3.58	7.11	0.50	1.69	2.00	2.43	2.77	3.09	3.41	3.75	4.14	4.63	5.37	6.03
August	3.26	8.32	0.39	1.65	1.92	2.29	2.59	2.86	3.13	3.42	3.75	4.16	4.77	5.32
September	2.87	6.49	0.44	1.30	1.56	1.91	2.19	2.46	2.73	3.01	3.34	3.75	4.38	4.94
October	2.71	2.59	1.05	0.64	0.90	1.29	1.65	2.00	2.37	2.79	3.28	3.94	4.97	5.93
November	2.71	7.87	0.34	1.34	1.57	1.88	2.13	2.36	2.60	2.84	3.12	3.47	3.99	4.45
December	2.39	6.82	0.35	1.11	1.32	1.61	1.84	2.06	2.27	2.51	2.77	3.10	3.60	4.05

Ohio West Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.80	1.96	1.42	0.48	0.73	1.14	1.52	1.91	2.33	2.81	3.40	4.18	5.42	6.59
February	2.21	3.77	0.59	0.72	0.93	1.24	1.51	1.76	2.02	2.31	2.64	3.07	3.74	4.35
March	3.37	3.62	0.93	1.07	1.39	1.86	2.27	2.66	3.07	3.51	4.03	4.70	5.74	6.70
April	3.62	4.40	0.82	1.32	1.66	2.15	2.56	2.95	3.35	3.78	4.29	4.93	5.92	6.83
May	3.57	4.43	0.81	1.31	1.64	2.12	2.53	2.91	3.31	3.74	4.23	4.87	5.85	6.74
June	4.06	4.29	0.95	1.45	1.83	2.39	2.85	3.29	3.75	4.24	4.81	5.55	6.68	7.72
July	3.63	6.08	0.60	1.59	1.92	2.37	2.74	3.08	3.43	3.81	4.23	4.77	5.60	6.34
August	2.97	5.79	0.51	1.27	1.54	1.92	2.22	2.51	2.80	3.12	3.48	3.93	4.62	5.24
September	2.89	2.64	1.09	0.70	0.97	1.39	1.77	2.14	2.53	2.97	3.49	4.18	5.26	6.27
October	2.37	2.14	1.10	0.46	0.67	1.02	1.34	1.66	2.01	2.41	2.88	3.51	4.53	5.49
November	2.41	4.65	0.52	0.91	1.13	1.45	1.72	1.98	2.24	2.52	2.84	3.26	3.90	4.48
December	2.23	3.51	0.63	0.69	0.90	1.22	1.49	1.75	2.02	2.32	2.67	3.12	3.82	4.47

TABLE 83 - Precipitation Probabilities for Climatic Divisions

Ohio Central Hills Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.84	2.52	1.13	0.66	0.92	1.34	1.71	2.08	2.48	2.92	3.45	4.14	5.24	6.28
February	2.23	4.62	0.48	0.84	1.04	1.34	1.59	1.83	2.07	2.33	2.63	3.02	3.61	4.15
March	3.40	4.61	0.74	1.28	1.60	2.05	2.43	2.79	3.16	3.56	4.03	4.62	5.52	6.35
April	3.47	5.97	0.58	1.51	1.82	2.25	2.61	2.94	3.27	3.63	4.04	4.56	5.34	6.03
May	3.62	4.93	0.73	1.42	1.75	2.23	2.62	3.00	3.38	3.79	4.26	4.87	5.78	6.61
June	4.22	5.44	0.77	1.74	2.13	2.67	3.12	3.54	3.96	4.42	4.95	5.61	6.63	7.56
July	3.89	8.96	0.43	2.02	2.34	2.77	3.12	3.43	3.74	4.07	4.45	4.91	5.60	6.20
August	3.50	6.67	0.52	1.60	1.91	2.34	2.68	3.00	3.32	3.67	4.06	4.55	5.30	5.97
September	2.83	4.14	0.68	0.99	1.26	1.64	1.97	2.28	2.60	2.95	3.36	3.88	4.69	5.43
October	2.24	2.44	0.92	0.50	0.71	1.04	1.33	1.63	1.94	2.30	2.72	3.28	4.16	5.00
November	2.43	5.36	0.45	1.00	1.22	1.53	1.79	2.04	2.28	2.55	2.85	3.24	3.84	4.38
December	2.31	3.64	0.63	0.74	0.96	1.28	1.56	1.82	2.10	2.41	2.76	3.22	3.93	4.59

Ohio Northeast Hills Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.93	3.30	0.89	0.87	1.15	1.57	1.93	2.28	2.64	3.05	3.52	4.14	5.10	5.99
February	2.35	4.58	0.51	0.88	1.10	1.41	1.68	1.93	2.18	2.46	2.78	3.19	3.82	4.40
March	3.52	5.08	0.69	1.40	1.72	2.19	2.57	2.93	3.29	3.69	4.14	4.72	5.61	6.42
April	3.50	6.04	0.58	1.53	1.84	2.28	2.64	2.97	3.30	3.67	4.08	4.60	5.40	6.11
May	3.62	4.46	0.81	1.33	1.67	2.16	2.57	2.95	3.35	3.78	4.28	4.92	5.91	6.81
June	4.01	9.14	0.44	2.10	2.43	2.87	3.22	3.54	3.86	4.20	4.58	5.06	5.77	6.41
July	4.11	7.29	0.56	1.96	2.32	2.81	3.20	3.56	3.92	4.31	4.75	5.31	6.14	6.89
August	3.30	4.93	0.67	1.29	1.59	2.03	2.39	2.73	3.07	3.45	3.88	4.43	5.26	6.01
September	2.82	3.68	0.76	0.91	1.17	1.57	1.90	2.23	2.56	2.93	3.36	3.92	4.78	5.57
October	2.46	2.52	0.98	0.57	0.80	1.16	1.48	1.81	2.15	2.53	2.99	3.59	4.54	5.44
November	2.49	5.71	0.44	1.06	1.28	1.60	1.86	2.10	2.35	2.61	2.91	3.30	3.88	4.41
December	2.41	4.21	0.57	0.85	1.08	1.41	1.68	1.95	2.22	2.51	2.86	3.30	3.98	4.60

TABLE 84 - Precipitation Probabilities for Climatic Divisions

Ohio Southwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.44	2.36	1.46	0.74	1.06	1.56	2.02	2.48	2.97	3.52	4.18	5.04	6.43	7.74
February	2.83	3.13	0.91	0.80	1.07	1.48	1.83	2.18	2.54	2.94	3.41	4.02	4.98	5.88
March	4.18	3.12	1.34	1.18	1.57	2.17	2.70	3.21	3.74	4.33	5.03	5.93	7.35	8.67
April	3.78	4.36	0.87	1.37	1.72	2.24	2.66	3.07	3.49	3.95	4.48	5.16	6.20	7.16
May	3.78	3.61	1.05	1.20	1.56	2.09	2.54	2.98	3.44	3.94	4.52	5.27	6.45	7.53
June	4.02	4.98	0.81	1.58	1.95	2.48	2.92	3.33	3.75	4.21	4.73	5.40	6.40	7.31
July	3.93	5.33	0.74	1.60	1.96	2.47	2.89	3.28	3.68	4.11	4.61	5.24	6.20	7.07
August	3.16	8.84	0.36	1.64	1.90	2.25	2.53	2.78	3.04	3.31	3.62	4.00	4.57	5.07
September	2.93	3.67	0.80	0.94	1.22	1.63	1.98	2.32	2.67	3.05	3.50	4.07	4.97	5.79
October	2.27	2.52	0.90	0.52	0.74	1.07	1.37	1.66	1.98	2.33	2.75	3.31	4.19	5.02
November	2.84	3.92	0.73	0.96	1.23	1.62	1.95	2.27	2.60	2.96	3.38	3.92	4.75	5.50
December	2.66	3.97	0.67	0.90	1.15	1.52	1.83	2.13	2.44	2.77	3.16	3.66	4.42	5.12

Ohio South Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.60	3.11	1.16	1.01	1.35	1.87	2.32	2.76	3.22	3.73	4.33	5.11	6.34	7.48
February	3.01	3.21	0.94	0.87	1.15	1.59	1.96	2.32	2.70	3.12	3.61	4.26	5.26	6.19
March	4.37	4.71	0.93	1.66	2.07	2.65	3.13	3.59	4.06	4.57	5.16	5.91	7.05	8.10
April	3.76	6.03	0.62	1.64	1.98	2.45	2.83	3.19	3.55	3.94	4.38	4.95	5.80	6.58
May	3.83	4.23	0.90	1.36	1.72	2.24	2.68	3.10	3.53	4.00	4.54	5.24	6.32	7.31
June	3.84	7.92	0.49	1.90	2.23	2.67	3.02	3.35	3.68	4.02	4.42	4.91	5.64	6.29
July	4.46	6.73	0.66	2.05	2.45	2.99	3.42	3.83	4.24	4.67	5.17	5.80	6.75	7.59
August	3.58	5.66	0.63	1.51	1.84	2.29	2.67	3.02	3.37	3.75	4.19	4.75	5.59	6.35
September	3.01	5.27	0.57	1.22	1.50	1.89	2.21	2.52	2.82	3.16	3.54	4.03	4.77	5.44
October	2.12	2.60	0.81	0.50	0.70	1.01	1.29	1.56	1.85	2.18	2.56	3.07	3.87	4.63
November	2.70	4.85	0.56	1.04	1.29	1.65	1.95	2.23	2.51	2.82	3.18	3.63	4.33	4.95
December	2.85	3.80	0.75	0.94	1.21	1.61	1.94	2.27	2.60	2.97	3.40	3.94	4.79	5.57

TABLE 85 - Precipitation Probabilities for Climatic Divisions

Ohio Southeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.04	3.26	0.93	0.89	1.18	1.61	1.99	2.35	2.73	3.15	3.65	4.29	5.29	6.23
February	2.63	4.33	0.61	0.95	1.19	1.55	1.85	2.13	2.43	2.74	3.11	3.59	4.32	4.98
March	3.83	4.26	0.90	1.36	1.72	2.25	2.68	3.10	3.53	4.00	4.54	5.24	6.31	7.29
April	3.63	6.53	0.56	1.65	1.97	2.41	2.77	3.11	3.45	3.81	4.22	4.74	5.53	6.23
May	3.83	4.33	0.88	1.38	1.74	2.26	2.69	3.11	3.54	4.00	4.54	5.23	6.29	7.26
June	4.20	7.02	0.60	1.97	2.34	2.84	3.25	3.62	4.00	4.40	4.86	5.44	6.31	7.10
July	4.26	15.78	0.27	2.66	2.95	3.34	3.64	3.90	4.17	4.44	4.74	5.12	5.67	6.15
August	3.59	4.81	0.75	1.38	1.71	2.19	2.58	2.96	3.34	3.75	4.23	4.83	5.76	6.60
September	2.86	3.65	0.78	0.91	1.18	1.58	1.93	2.26	2.60	2.97	3.41	3.98	4.85	5.66
October	2.21	2.84	0.78	0.57	0.78	1.10	1.38	1.66	1.95	2.28	2.66	3.17	3.95	4.68
November	2.54	5.62	0.45	1.07	1.30	1.62	1.89	2.14	2.39	2.66	2.98	3.37	3.97	4.52
December	2.60	4.35	0.60	0.94	1.18	1.53	1.83	2.11	2.40	2.71	3.08	3.55	4.27	4.93

PENNSYLVANIA
STATUTE MILES
90TH MERIDIAN TIME ZONE
NORTHWEST
PLATEAU
UPPER SUSQUEHANNA
POCONO
MOUNTAINS
CENTRAL MOUNTAINS
SUSQUEHANNA
EAST CENTRAL MOUNTAINS
SOUTHWEST
PLATEAU
SOUTH CENTRAL
MOUNTAINS
LOWER SUSQUEHANNA
SOUTHEASTERN PIEDMONT
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2 AND 45 1/2
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Non-recording
Recording
Both types
Soil temperature only
Double circle combinations indicate the availability of more detailed meteorological data

TABLE 86 - Comparison of Station Data with Corresponding Climatic Divisions Data

Station--Harrisburg, Pennsylvania

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.79	5.33	0.52	1.14	1.40	1.76	2.06	2.34	2.62	2.93	3.28	3.73	4.41	5.04
February	2.46	6.58	0.37	1.12	1.34	1.64	1.88	2.11	2.33	2.58	2.85	3.20	3.73	4.21
March	3.44	6.75	0.51	1.59	1.89	2.30	2.64	2.95	3.27	3.60	3.99	4.47	5.20	5.85
April	3.02	5.06	0.60	1.20	1.48	1.87	2.20	2.51	2.82	3.16	3.55	4.05	4.81	5.51
May	3.59	2.50	1.44	0.82	1.16	1.68	2.15	2.62	3.12	3.68	4.35	5.23	6.63	7.95
June	3.23	2.98	1.08	0.88	1.18	1.65	2.06	2.46	2.87	3.34	3.89	4.60	5.71	6.72
July	3.44	3.21	1.07	0.99	1.32	1.81	2.24	2.66	3.09	3.57	4.14	4.87	6.02	7.08
August	3.67	3.16	1.16	1.05	1.40	1.92	2.38	2.83	3.30	3.81	4.42	5.21	6.45	7.60
September	2.85	2.93	0.97	0.76	1.03	1.44	1.80	2.15	2.52	2.94	3.42	4.06	5.05	5.96
October	2.84	2.09	1.36	0.53	0.79	1.20	1.59	1.98	2.40	2.88	3.46	4.22	5.46	6.64
November	3.03	3.12	0.97	0.85	1.14	1.58	1.96	2.33	2.71	3.14	3.64	4.30	5.33	6.28
December	2.91	3.46	0.84	0.89	1.17	1.58	1.93	2.28	2.63	3.03	3.48	4.08	5.00	5.86

Division--Pennsylvania Lower Susquehanna Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.91	5.36	0.54	1.19	1.46	1.83	2.14	2.43	2.73	3.05	3.41	3.88	4.59	5.23
February	2.52	6.31	0.40	1.13	1.35	1.66	1.92	2.15	2.39	2.65	2.94	3.31	3.87	4.37
March	3.74	6.91	0.54	1.75	2.07	2.52	2.89	3.22	3.56	3.92	4.34	4.85	5.63	6.32
April	3.52	5.01	0.70	1.39	1.71	2.18	2.56	2.92	3.29	3.69	4.14	4.73	5.62	6.44
May	3.87	3.74	1.03	1.26	1.63	2.17	2.63	3.07	3.53	4.03	4.61	5.36	6.53	7.60
June	3.67	7.62	0.48	1.79	2.10	2.53	2.88	3.20	3.51	3.85	4.24	4.72	5.45	6.09
July	3.70	7.32	0.51	1.77	2.09	2.53	2.88	3.20	3.53	3.88	4.28	4.77	5.52	6.19
August	3.99	4.14	0.96	1.39	1.77	2.32	2.78	3.22	3.67	4.16	4.74	5.47	6.61	7.66
September	3.13	3.51	0.89	0.97	1.27	1.71	2.09	2.46	2.84	3.26	3.75	4.39	5.38	6.29
October	3.10	2.06	1.51	0.57	0.85	1.30	1.72	2.15	2.62	3.14	3.78	4.63	5.99	7.29
November	3.19	3.31	0.96	0.95	1.25	1.70	2.10	2.48	2.88	3.31	3.83	4.50	5.54	6.51
December	2.94	3.18	0.93	0.84	1.12	1.54	1.91	2.27	2.64	3.05	3.54	4.16	5.15	6.07

TABLE 87 - Precipitation Probabilities for Climatic Divisions

Pennsylvania Pocono Mountains Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.92	6.38	0.46	1.31	1.57	1.93	2.23	2.50	2.77	3.07	3.40	3.83	4.47	5.05
February	2.63	10.73	0.25	1.46	1.67	1.94	2.16	2.35	2.55	2.75	2.98	3.27	3.69	4.07
March	3.52	7.88	0.45	1.74	2.04	2.44	2.77	3.07	3.37	3.68	4.05	4.50	5.17	5.77
April	3.82	6.06	0.63	1.67	2.01	2.49	2.88	3.24	3.61	4.00	4.46	5.03	5.89	6.67
May	3.89	4.58	0.85	1.45	1.82	2.34	2.77	3.19	3.61	4.07	4.60	5.28	6.32	7.27
June	3.79	9.08	0.42	1.98	2.29	2.71	3.04	3.35	3.65	3.97	4.34	4.79	5.46	6.07
July	4.58	3.99	1.15	1.56	1.99	2.63	3.16	3.67	4.20	4.77	5.44	6.30	7.61	8.80
August	4.25	3.92	1.09	1.43	1.83	2.42	2.92	3.40	3.89	4.43	5.06	5.86	7.10	8.22
September	3.63	2.78	1.31	0.92	1.26	1.79	2.26	2.72	3.20	3.74	4.38	5.22	6.53	7.76
October	3.42	2.55	1.34	0.80	1.12	1.62	2.06	2.51	2.98	3.51	4.14	4.97	6.28	7.52
November	3.65	4.54	0.80	1.36	1.70	2.19	2.60	2.99	3.39	3.82	4.32	4.96	5.95	6.84
December	3.17	4.30	0.74	1.14	1.44	1.87	2.23	2.57	2.93	3.31	3.76	4.33	5.22	6.03

Pennsylvania East Central Mountains Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.15	5.71	0.55	1.34	1.62	2.02	2.35	2.65	2.97	3.30	3.68	4.17	4.90	5.57
February	2.74	10.11	0.27	1.49	1.71	2.00	2.23	2.44	2.65	2.87	3.12	3.43	3.89	4.30
March	3.77	8.77	0.43	1.95	2.26	2.68	3.02	3.32	3.63	3.95	4.32	4.78	5.46	6.07
April	3.79	5.16	0.73	1.52	1.87	2.37	2.78	3.16	3.55	3.97	4.46	5.08	6.03	6.89
May	3.98	3.39	1.18	1.20	1.58	2.15	2.63	3.11	3.60	4.14	4.77	5.60	6.88	8.07
June	3.72	7.04	0.53	1.75	2.08	2.52	2.88	3.21	3.55	3.90	4.31	4.82	5.59	6.29
July	4.82	3.36	1.43	1.44	1.90	2.59	3.18	3.75	4.35	5.01	5.78	6.78	8.34	9.79
August	4.43	4.28	1.03	1.58	2.00	2.60	3.11	3.59	4.09	4.63	5.26	6.06	7.29	8.43
September	3.77	2.58	1.46	0.89	1.24	1.79	2.29	2.77	3.29	3.87	4.56	5.47	6.90	8.25
October	3.16	2.88	1.10	0.83	1.13	1.59	1.99	2.39	2.80	3.26	3.81	4.52	5.63	6.66
November	3.68	3.43	1.07	1.12	1.47	1.99	2.44	2.87	3.33	3.82	4.41	5.16	6.34	7.43
December	3.35	3.62	0.93	1.06	1.38	1.86	2.26	2.65	3.05	3.49	4.01	4.68	5.72	6.67

TABLE 88 - Precipitation Probabilities for Climatic Divisions

Pennsylvania Southeastern Piedmont Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.16	5.00	0.63	1.24	1.54	1.95	2.30	2.62	2.95	3.31	3.72	4.24	5.05	5.78
February	2.72	10.34	0.26	1.49	1.71	1.99	2.22	2.43	2.63	2.85	3.09	3.39	3.84	4.24
March	3.81	8.19	0.47	1.91	2.23	2.67	3.02	3.34	3.66	3.99	4.38	4.86	5.58	6.23
April	3.53	5.00	0.71	1.39	1.72	2.18	2.57	2.93	3.30	3.70	4.16	4.74	5.64	6.46
May	3.70	3.66	1.01	1.18	1.53	2.05	2.50	2.92	3.36	3.85	4.42	5.15	6.28	7.32
June	3.74	6.15	0.61	1.65	1.98	2.45	2.82	3.18	3.53	3.92	4.36	4.91	5.75	6.51
July	4.31	4.01	1.08	1.48	1.88	2.48	2.98	3.46	3.96	4.50	5.14	5.95	7.20	8.36
August	4.47	4.10	1.09	1.56	1.98	2.59	3.11	3.61	4.12	4.67	5.32	6.15	7.43	8.61
September	3.49	3.50	1.00	1.08	1.41	1.90	2.33	2.74	3.16	3.63	4.18	4.88	5.99	7.01
October	2.95	3.14	0.94	0.84	1.12	1.54	1.91	2.27	2.64	3.06	3.55	4.18	5.18	6.11
November	3.50	3.16	1.11	1.00	1.33	1.83	2.27	2.70	3.14	3.63	4.21	4.96	6.14	7.24
December	3.09	3.95	0.78	1.05	1.34	1.77	2.13	2.47	2.83	3.22	3.68	4.26	5.15	5.96

Pennsylvania Middle Susquehanna Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.70	6.00	0.45	1.17	1.41	1.75	2.03	2.28	2.54	2.82	3.14	3.54	4.14	4.68
February	2.33	6.05	0.38	1.02	1.23	1.52	1.75	1.98	2.20	2.44	2.71	3.06	3.59	4.07
March	3.54	8.94	0.40	1.84	2.13	2.52	2.83	3.12	3.40	3.70	4.04	4.46	5.09	5.65
April	3.54	6.28	0.56	1.58	1.89	2.33	2.68	3.02	3.35	3.71	4.12	4.64	5.42	6.13
May	4.04	3.72	1.09	1.31	1.69	2.26	2.74	3.20	3.68	4.21	4.82	5.61	6.83	7.96
June	3.39	9.02	0.38	1.77	2.05	2.42	2.72	2.99	3.26	3.55	3.88	4.28	4.89	5.43
July	3.74	8.58	0.44	1.91	2.22	2.64	2.98	3.29	3.59	3.92	4.29	4.75	5.43	6.05
August	3.87	5.53	0.70	1.62	1.97	2.46	2.87	3.25	3.64	4.06	4.54	5.15	6.08	6.92
September	3.09	3.47	0.89	0.95	1.24	1.68	2.06	2.42	2.80	3.22	3.70	4.33	5.32	6.23
October	3.09	2.45	1.26	0.69	0.98	1.43	1.84	2.25	2.68	3.17	3.75	4.51	5.73	6.87
November	3.28	3.81	0.86	1.08	1.39	1.85	2.24	2.61	3.00	3.42	3.91	4.55	5.53	6.42
December	2.82	3.79	0.74	0.93	1.19	1.59	1.92	2.24	2.57	2.94	3.36	3.91	4.75	5.52

TABLE 89 - Precipitation Probabilities for Climatic Divisions

Pennsylvania Upper Susquehanna Division

Probabilities (Based on 34 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.28	5.51	0.41	0.95	1.16	1.45	1.69	1.92	2.14	2.39	2.67	3.03	3.58	4.08
February	2.10	6.25	0.34	0.93	1.12	1.38	1.59	1.79	1.99	2.20	2.45	2.75	3.22	3.64
March	2.97	9.26	0.32	1.56	1.81	2.13	2.39	2.62	2.86	3.11	3.39	3.74	4.26	4.73
April	3.33	7.04	0.47	1.57	1.86	2.25	2.58	2.87	3.17	3.49	3.86	4.31	5.00	5.62
May	3.91	4.13	0.95	1.37	1.73	2.27	2.72	3.16	3.60	4.09	4.65	5.38	6.49	7.52
June	3.24	8.57	0.38	1.66	1.93	2.29	2.59	2.85	3.12	3.40	3.72	4.12	4.72	5.25
July	3.84	9.03	0.42	2.00	2.32	2.74	3.08	3.39	3.70	4.02	4.39	4.85	5.54	6.15
August	3.77	6.28	0.60	1.68	2.02	2.48	2.86	3.22	3.57	3.96	4.39	4.95	5.78	6.54
September	3.25	3.27	0.99	0.95	1.26	1.73	2.13	2.52	2.93	3.37	3.90	4.59	5.66	6.66
October	2.98	2.51	1.19	0.68	0.96	1.40	1.79	2.18	2.60	3.06	3.62	4.35	5.51	6.60
November	2.81	4.87	0.58	1.09	1.35	1.72	2.03	2.32	2.62	2.94	3.31	3.78	4.50	5.15
December	2.39	4.74	0.51	0.91	1.14	1.45	1.72	1.97	2.23	2.50	2.83	3.23	3.86	4.43

Pennsylvania Central Mountains Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.79	6.45	0.43	1.26	1.50	1.85	2.12	2.38	2.64	2.92	3.24	3.64	4.25	4.80
February	2.39	5.93	0.40	1.03	1.25	1.55	1.79	2.02	2.25	2.50	2.78	3.14	3.68	4.17
March	3.71	8.07	0.46	1.85	2.17	2.59	2.93	3.25	3.56	3.89	4.27	4.75	5.46	6.09
April	3.62	6.68	0.54	1.66	1.98	2.42	2.78	3.11	3.44	3.80	4.20	4.71	5.48	6.18
May	4.12	3.89	1.06	1.38	1.77	2.34	2.82	3.29	3.77	4.29	4.90	5.68	6.89	7.99
June	3.68	10.78	0.34	2.05	2.33	2.72	3.02	3.29	3.56	3.85	4.17	4.57	5.16	5.68
July	4.08	10.20	0.40	2.23	2.55	2.99	3.33	3.64	3.95	4.28	4.65	5.10	5.78	6.39
August	3.74	6.93	0.54	1.75	2.07	2.52	2.88	3.22	3.56	3.92	4.33	4.84	5.61	6.30
September	2.99	4.33	0.69	1.08	1.36	1.76	2.10	2.43	2.76	3.12	3.54	4.08	4.91	5.67
October	2.90	2.68	1.08	0.71	0.98	1.41	1.78	2.15	2.54	2.98	3.50	4.18	5.26	6.26
November	3.03	5.35	0.57	1.24	1.52	1.91	2.23	2.54	2.85	3.18	3.56	4.05	4.79	5.46
December	2.73	5.10	0.53	1.09	1.34	1.69	1.99	2.27	2.55	2.86	3.21	3.66	4.34	4.97

TABLE 90 - Precipitation Probabilities for Climatic Divisions

Pennsylvania South Central Mountains Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.96	6.57	0.45	1.35	1.61	1.97	2.27	2.54	2.81	3.11	3.44	3.86	4.50	5.08
February	2.52	7.03	0.36	1.18	1.40	1.71	1.95	2.17	2.40	2.64	2.92	3.27	3.79	4.26
March	3.93	6.78	0.58	1.82	2.16	2.64	3.02	3.38	3.74	4.12	4.56	5.11	5.94	6.68
April	3.73	5.82	0.64	1.60	1.94	2.41	2.79	3.15	3.52	3.91	4.36	4.93	5.79	6.56
May	3.90	3.99	0.98	1.33	1.70	2.23	2.69	3.12	3.57	4.06	4.63	5.35	6.47	7.47
June	3.94	6.47	0.61	1.78	2.13	2.61	3.00	3.37	3.74	4.13	4.58	5.15	6.01	6.78
July	4.04	10.24	0.39	2.21	2.53	2.96	3.30	3.60	3.91	4.23	4.60	5.05	5.72	6.32
August	3.73	5.30	0.70	1.52	1.86	2.35	2.74	3.12	3.50	3.91	4.38	4.98	5.90	6.73
September	2.88	4.22	0.68	1.02	1.29	1.68	2.01	2.33	2.65	3.01	3.42	3.94	4.76	5.50
October	2.73	2.30	1.19	0.57	0.82	1.22	1.59	1.95	2.34	2.79	3.32	4.02	5.14	6.20
November	2.89	5.24	0.55	1.17	1.44	1.81	2.12	2.41	2.71	3.03	3.40	3.87	4.58	5.23
December	2.81	4.05	0.69	0.97	1.23	1.62	1.94	2.26	2.58	2.93	3.34	3.86	4.67	5.42

Pennsylvania Southwest Plateau Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.08	5.14	0.60	1.23	1.52	1.92	2.25	2.56	2.88	3.22	3.62	4.12	4.89	5.60
February	2.61	6.21	0.42	1.16	1.39	1.72	1.98	2.23	2.48	2.74	3.05	3.43	4.02	4.55
March	3.83	7.38	0.52	1.84	2.17	2.62	2.99	3.33	3.66	4.02	4.43	4.94	5.72	6.41
April	3.81	6.80	0.56	1.76	2.10	2.55	2.93	3.27	3.62	3.99	4.41	4.94	5.74	6.46
May	3.95	6.02	0.66	1.72	2.08	2.57	2.98	3.36	3.74	4.15	4.62	5.21	6.11	6.92
June	4.25	9.25	0.46	2.24	2.58	3.05	3.42	3.76	4.09	4.45	4.85	5.35	6.10	6.77
July	4.24	13.33	0.32	2.53	2.83	3.24	3.56	3.85	4.13	4.43	4.76	5.17	5.78	6.31
August	3.80	5.46	0.70	1.57	1.92	2.41	2.81	3.19	3.57	3.98	4.46	5.06	5.98	6.81
September	3.02	4.66	0.65	1.14	1.43	1.83	2.17	2.48	2.81	3.16	3.57	4.10	4.90	5.63
October	2.74	3.28	0.83	0.81	1.07	1.46	1.79	2.12	2.47	2.84	3.29	3.86	4.76	5.60
November	2.74	5.89	0.46	1.18	1.43	1.77	2.05	2.31	2.58	2.86	3.19	3.60	4.23	4.79
December	2.74	4.75	0.58	1.05	1.30	1.67	1.97	2.26	2.55	2.87	3.23	3.70	4.42	5.07

TABLE 91 - Precipitation Probabilities for Climatic Divisions

Pennsylvania Northwest Plateau Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.99	4.17	0.72	1.05	1.33	1.74	2.09	2.42	2.76	3.12	3.55	4.10	4.95	5.73
February	2.58	7.26	0.36	1.23	1.45	1.76	2.01	2.23	2.46	2.71	2.99	3.33	3.86	4.33
March	3.41	8.02	0.42	1.70	1.99	2.38	2.69	2.98	3.27	3.57	3.92	4.36	5.01	5.60
April	3.79	7.60	0.50	1.85	2.17	2.61	2.97	3.30	3.63	3.98	4.37	4.87	5.62	6.29
May	3.97	5.32	0.75	1.62	1.99	2.50	2.92	3.32	3.73	4.16	4.67	5.30	6.28	7.16
June	4.04	10.94	0.37	2.26	2.57	2.99	3.32	3.62	3.91	4.22	4.57	5.00	5.64	6.20
July	4.08	9.78	0.42	2.19	2.52	2.96	3.30	3.62	3.94	4.27	4.64	5.11	5.80	6.41
August	3.48	7.69	0.45	1.70	2.00	2.41	2.73	3.03	3.33	3.65	4.02	4.47	5.16	5.77
September	3.18	6.69	0.48	1.46	1.74	2.13	2.44	2.73	3.02	3.34	3.69	4.14	4.82	5.43
October	3.06	2.82	1.09	0.79	1.08	1.52	1.91	2.30	2.71	3.16	3.69	4.39	5.49	6.51
November	3.28	7.86	0.42	1.62	1.90	2.28	2.58	2.86	3.14	3.44	3.78	4.20	4.83	5.39
December	2.81	7.87	0.36	1.39	1.63	1.95	2.21	2.45	2.69	2.94	3.23	3.59	4.13	4.61

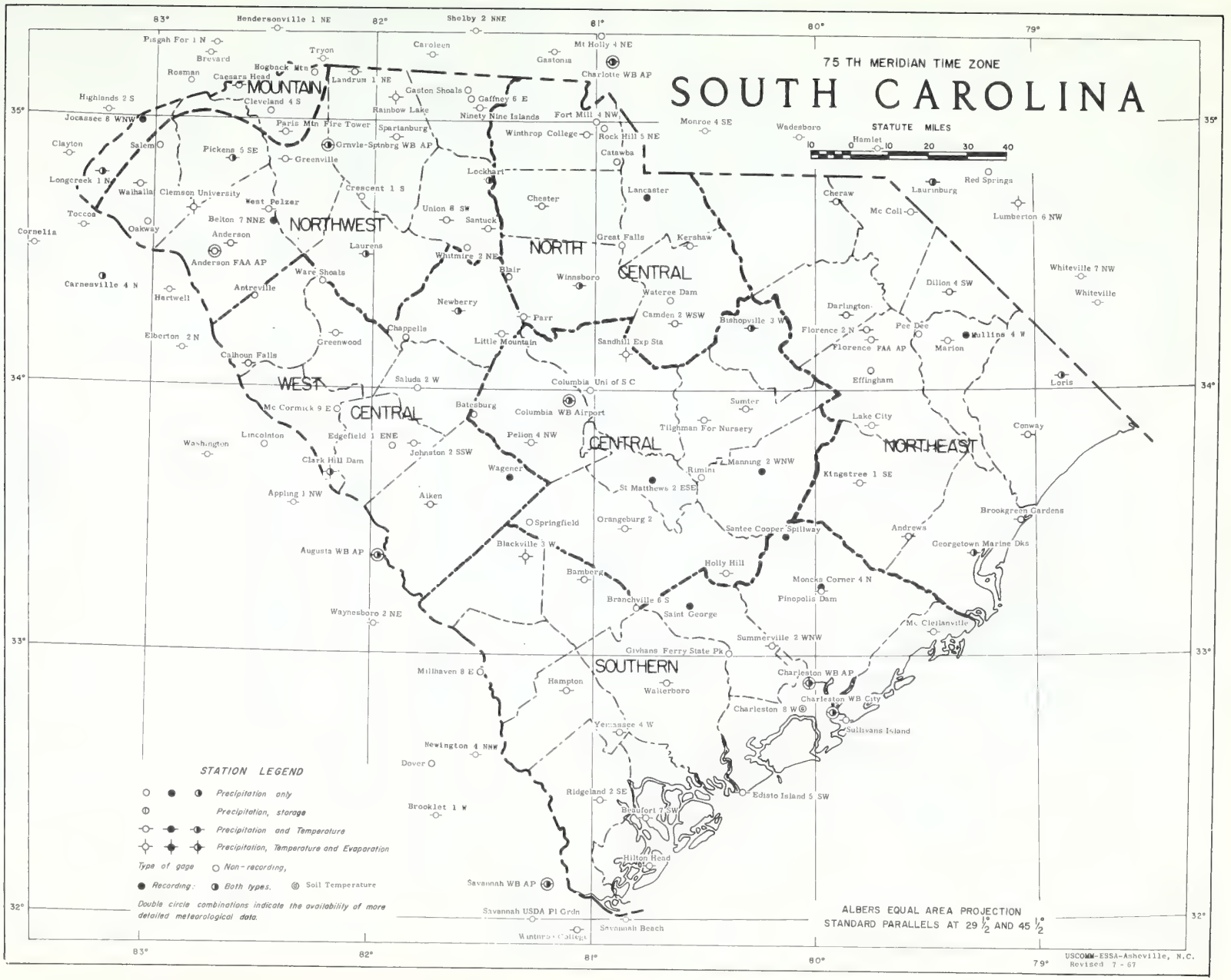
SOUTH CAROLINA
75 TH MERIDIAN TIME ZONE
STATUTE MILES
10 0 10 20 30 40
MOUNTAIN
NORTHWEST
WEST CENTRAL
NORTH CENTRAL
CENTRAL
SOUTHERN
NORTHEAST
Hendersonville 1 NE
Shelby 2 NNE
Pisgah For 1 N
Brevard
Tryon
Caroleen
Mt Holly 4 NE
Gastonia
Charlotte WB AP
Rosman
Hogback Mtn
Caesars Head
Landrum 1 NE
Gaston Shoals
Gaffney 6 E
Highlands 2 S
Cleveland 4 S
Rainbow Lake
Ninety Nine Islands
Fort Mill 4 NW
Jocassee 8 WNW
Paris Mtn Fire Tower
Spartanburg
Winthrop College
Rock Hill 5 NE
Monroe 4 SE
Wadesboro
Hamlet
Clayton
Salem
Pickens 6 SE
Grnvle-Spnbrg WB AP
Greenville
Catawba
Longcreek 1 N
Walhalla
Clemson University
Lockhart
Red Springs
Laurinburg
Crescent 1 S
Lancaster
Cheraw
West Pelzer
Chester
Mc Coll
Lumberton 6 NW
Toccoa
Belton 7 NNE
Union 8 SW
Santuck
Cornelia
Oakway
Anderson
Great Falls
Kershaw
Laurens
Whitmire 2 NE
Anderson FAA AP
Blair
Winnsboro
Whiteville 7 NW
Carnesville 4 N
Ware Shoals
Wateree Dam
Dillon 4 SW
Hartwell
Antreville
Newberry
Darlington
Whiteville
Camden 2 WSW
Bishopville 3 W
Florence 2 N
Pee Dee
Farr
Chappells
Little Mountain
Sandhill Exp Sta
Florence FAA AP
Marion
Mullins 4 W
Elberton 2 N
Greenwood
Calhoun Falls
Saluda 2 W
Columbia Uni of S C
Effingham
Loris
Batesburg
Columbia WB Airport
Sumter
Mc Cormick 9 E
Lake City
Tillman For Nursery
Conway
Lincolnton
Edgefield 1 ENE
Pelion 4 NW
Washington
Johnston 2 SSW
Manning 2 WNW
Kingstree 1 SE
Clark Hill Dam
Wagener
Rimini
St Matthews 2 ESE
Appling 1 NW
Aiken
Springfield
Orangeburg 2
Brookgreen Gardens
Santee Cooper Spillway
Andrews
Augusta WB AP
Blackville 3 W
Georgetown Marine Dks
Holly Hill
Bamberg
Moncks Corner 4 N
Branchville 6 S
Pinopolis Dam
Waynesboro 2 NE
Saint George
Mc Clellanville
Summerville 2 WNW
Givhans Ferry State Pk
Millhaven 8 E
Hampton
Charleston WB AP
Walterboro
Charleston WB City
Charleston 8 W
Yemassee 4 W
Sullivans Island
Newington 4 NNW
Dover
Ridgeland 2 SE
Edisto Island 5 SW
Brooklet 1 W
Beaufort 7 SW
Hilton Head
Savannah WB AP
Savannah USDA Pl Grdn
Savannah Beach
Wintrop College
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage Non-recording,
Recording: Both types. Soil Temperature
Double circle combinations indicate the availability of more detailed meteorological data.
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2° AND 45 1/2°
USCOMM-ESSA-Asheville, N.C.
Revised 7-67
83° 82° 81° 80° 79°
35° 34° 33° 32°

TABLE 92 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Columbia, South Carolina

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.11	3.20	0.97	0.89	1.19	1.63	2.02	2.40	2.79	3.22	3.73	4.40	5.44	6.40
February	3.76	2.73	1.38	0.94	1.29	1.84	2.33	2.81	3.31	3.87	4.54	5.42	6.80	8.08
March	4.05	4.59	0.88	1.51	1.89	2.43	2.89	3.32	3.76	4.23	4.78	5.49	6.57	7.56
April	3.69	4.17	0.89	1.30	1.65	2.15	2.58	2.98	3.40	3.86	4.39	5.07	6.11	7.08
May	3.34	2.23	1.50	0.68	0.98	1.47	1.92	2.37	2.86	3.40	4.06	4.93	6.33	7.66
June	3.61	3.35	1.08	1.08	1.42	1.94	2.38	2.81	3.26	3.75	4.33	5.08	6.25	7.34
July	5.42	3.26	1.66	1.59	2.10	2.88	3.55	4.20	4.88	5.63	6.51	7.66	9.45	11.11
August	5.68	2.49	2.28	1.30	1.83	2.66	3.41	4.15	4.94	5.83	6.89	8.28	10.50	12.58
September	3.92	2.17	1.81	0.77	1.12	1.70	2.23	2.76	3.34	3.99	4.78	5.82	7.49	9.07
October	2.24	0.87	2.57	0.08	0.18	0.42	0.71	1.05	1.47	1.99	2.67	3.65	5.34	7.05
November	2.23	1.80	1.24	0.34	0.53	0.86	1.17	1.48	1.83	2.23	2.72	3.38	4.44	5.45
December	3.17	2.65	1.20	0.77	1.07	1.53	1.94	2.35	2.78	3.26	3.84	4.59	5.77	6.88

Division--South Carolina Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.95	3.62	0.81	0.94	1.22	1.63	1.99	2.33	2.68	3.07	3.53	4.11	5.02	5.86
February	3.73	2.59	1.44	0.88	1.23	1.78	2.26	2.75	3.26	3.83	4.52	5.41	6.83	8.16
March	4.02	4.63	0.87	1.51	1.89	2.43	2.87	3.30	3.73	4.21	4.75	5.45	6.52	7.49
April	3.65	4.56	0.80	1.36	1.70	2.19	2.60	2.99	3.38	3.81	4.31	4.95	5.93	6.83
May	3.17	3.53	0.90	0.99	1.29	1.74	2.12	2.49	2.88	3.30	3.79	4.43	5.43	6.35
June	4.29	5.57	0.77	1.79	2.18	2.73	3.18	3.61	4.03	4.49	5.02	5.69	6.72	7.64
July	5.60	6.08	0.92	2.45	2.96	3.65	4.22	4.76	5.29	5.87	6.53	7.37	8.63	9.78
August	5.37	4.92	1.09	2.09	2.59	3.30	3.88	4.44	5.00	5.61	6.31	7.21	8.57	9.79
September	4.11	3.61	1.14	1.30	1.70	2.27	2.77	3.24	3.74	4.28	4.92	5.73	7.01	8.18
October	2.50	1.32	1.89	0.24	0.41	0.75	1.10	1.48	1.91	2.41	3.05	3.92	5.38	6.80
November	2.36	2.07	1.14	0.44	0.65	1.00	1.32	1.64	2.00	2.40	2.88	3.52	4.56	5.54
December	3.13	2.82	1.11	0.81	1.10	1.56	1.96	2.35	2.77	3.23	3.78	4.49	5.62	6.66

TABLE 93 - Precipitation Probabilities for Climatic Divisions

South Carolina Mountain Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	6.23	3.46	1.80	1.91	2.50	3.38	4.14	4.88	5.64	6.48	7.46	8.73	10.72	12.56
February	4.84	2.80	1.73	1.24	1.70	2.40	3.02	3.63	4.27	4.99	5.84	6.95	8.69	10.31
March	6.98	7.02	0.99	3.28	3.89	4.72	5.40	6.02	6.65	7.32	8.09	9.05	10.50	11.80
April	5.76	5.10	1.13	2.29	2.83	3.58	4.20	4.79	5.39	6.03	6.78	7.72	9.17	10.49
May	4.83	4.01	1.21	1.65	2.11	2.78	3.34	3.88	4.44	5.04	5.75	6.66	8.07	9.36
June	5.55	4.34	1.28	2.00	2.52	3.28	3.91	4.51	5.13	5.80	6.58	7.58	9.11	10.52
July	7.22	3.51	2.06	2.24	2.92	3.94	4.82	5.66	6.54	7.51	8.64	10.10	12.37	14.48
August	7.12	3.50	2.04	2.20	2.88	3.89	4.75	5.59	6.46	7.41	8.53	9.97	12.22	14.31
September	4.96	2.60	1.90	1.18	1.65	2.37	3.02	3.66	4.34	5.10	6.00	7.19	9.06	10.82
October	4.99	1.30	3.83	0.46	0.81	1.48	2.18	2.93	3.79	4.81	6.09	7.84	10.77	13.63
November	4.81	3.11	1.54	1.35	1.81	2.50	3.10	3.69	4.30	4.98	5.79	6.83	8.46	9.98
December	6.50	2.68	2.43	1.60	2.21	3.15	4.00	4.83	5.71	6.70	7.87	9.40	11.81	14.08

South Carolina Northwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.54	4.64	0.98	1.71	2.14	2.74	3.25	3.73	4.22	4.75	5.37	6.15	7.36	8.46
February	4.54	4.44	1.02	1.66	2.09	2.70	3.21	3.70	4.20	4.75	5.38	6.18	7.42	8.56
March	5.52	7.49	0.74	2.67	3.14	3.79	4.31	4.79	5.27	5.78	6.37	7.10	8.20	9.19
April	4.38	4.41	0.99	1.60	2.01	2.60	3.10	3.57	4.05	4.58	5.19	5.97	7.17	8.27
May	3.31	3.76	0.88	1.08	1.40	1.86	2.25	2.63	3.02	3.45	3.95	4.60	5.59	6.51
June	4.00	6.11	0.65	1.76	2.12	2.62	3.03	3.41	3.79	4.20	4.67	5.27	6.17	6.99
July	5.00	8.27	0.60	2.52	2.94	3.51	3.96	4.38	4.80	5.24	5.75	6.37	7.32	8.16
August	4.76	5.30	0.90	1.94	2.38	3.00	3.50	3.98	4.47	4.99	5.60	6.36	7.53	8.60
September	3.52	2.03	1.74	0.64	0.95	1.46	1.94	2.43	2.96	3.57	4.30	5.27	6.83	8.32
October	3.24	1.49	2.18	0.37	0.62	1.08	1.53	2.01	2.55	3.18	3.96	5.02	6.77	8.47
November	3.21	2.61	1.23	0.77	1.07	1.54	1.96	2.37	2.81	3.30	3.89	4.66	5.87	7.01
December	4.49	3.27	1.37	1.32	1.74	2.38	2.94	3.48	4.04	4.66	5.39	6.34	7.82	9.19

TABLE 94 - Precipitation Probabilities for Climatic Divisions

South Carolina North Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.79	4.37	0.87	1.37	1.73	2.24	2.68	3.09	3.51	3.96	4.50	5.18	6.22	7.18
February	3.82	3.58	1.07	1.20	1.57	2.11	2.57	3.01	3.47	3.98	4.57	5.34	6.52	7.62
March	4.45	5.64	0.79	1.88	2.28	2.85	3.31	3.75	4.19	4.67	5.22	5.91	6.96	7.91
April	3.93	6.35	0.62	1.76	2.11	2.59	2.99	3.36	3.73	4.12	4.58	5.15	6.02	6.80
May	3.06	3.02	1.01	0.84	1.13	1.57	1.96	2.33	2.73	3.17	3.68	4.36	5.42	6.40
June	3.86	5.88	0.66	1.66	2.01	2.49	2.89	3.26	3.64	4.04	4.50	5.08	5.96	6.75
July	5.54	6.32	0.88	2.48	2.97	3.65	4.21	4.73	5.25	5.81	6.45	7.26	8.48	9.59
August	4.82	4.88	0.99	1.87	2.32	2.95	3.48	3.98	4.49	5.04	5.67	6.48	7.71	8.82
September	3.77	2.37	1.59	0.81	1.16	1.71	2.22	2.72	3.25	3.86	4.58	5.53	7.05	8.49
October	2.63	1.43	1.84	0.28	0.48	0.85	1.21	1.61	2.05	2.57	3.21	4.09	5.54	6.95
November	2.74	1.98	1.38	0.48	0.72	1.12	1.49	1.87	2.29	2.76	3.32	4.08	5.29	6.42
December	3.57	3.16	1.13	1.02	1.36	1.87	2.31	2.75	3.20	3.70	4.29	5.06	6.26	7.38

South Carolina Northeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.98	4.49	0.66	1.10	1.38	1.78	2.11	2.43	2.76	3.11	3.52	4.05	4.85	5.59
February	3.67	2.72	1.35	0.91	1.26	1.79	2.26	2.73	3.23	3.78	4.43	5.28	6.63	7.89
March	4.02	5.46	0.74	1.66	2.03	2.55	2.97	3.37	3.78	4.21	4.71	5.35	6.32	7.20
April	3.44	4.45	0.77	1.26	1.59	2.05	2.44	2.81	3.19	3.60	4.08	4.69	5.63	6.49
May	3.17	4.84	0.66	1.23	1.52	1.94	2.29	2.62	2.95	3.32	3.74	4.27	5.09	5.83
June	4.78	6.47	0.74	2.16	2.59	3.17	3.65	4.09	4.54	5.02	5.56	6.25	7.29	8.23
July	6.19	10.02	0.62	3.36	3.86	4.52	5.04	5.52	5.99	6.49	7.05	7.75	8.80	9.73
August	5.46	8.09	0.67	2.73	3.19	3.81	4.31	4.78	5.24	5.72	6.28	6.97	8.02	8.95
September	4.76	3.55	1.34	1.49	1.94	2.61	3.19	3.75	4.32	4.95	5.70	6.65	8.14	9.52
October	2.57	1.16	2.21	0.19	0.35	0.68	1.03	1.43	1.88	2.43	3.12	4.08	5.71	7.31
November	2.59	2.25	1.15	0.53	0.76	1.14	1.49	1.84	2.21	2.64	3.15	3.82	4.89	5.91
December	3.00	2.97	1.01	0.81	1.10	1.53	1.91	2.28	2.67	3.10	3.61	4.27	5.30	6.25

TABLE 95 - Precipitation Probabilities for Climatic Divisions

South Carolina West Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.00	4.51	0.89	1.48	1.86	2.40	2.85	3.27	3.71	4.19	4.74	5.44	6.52	7.51
February	4.17	3.72	1.12	1.35	1.75	2.33	2.83	3.31	3.80	4.35	4.98	5.80	7.06	8.22
March	4.86	5.45	0.89	2.01	2.45	3.08	3.59	4.08	4.57	5.09	5.70	6.47	7.65	8.71
April	4.13	4.33	0.95	1.49	1.88	2.44	2.91	3.36	3.82	4.32	4.90	5.64	6.79	7.84
May	3.28	2.65	1.24	0.80	1.10	1.58	2.01	2.43	2.88	3.38	3.97	4.75	5.98	7.13
June	3.79	6.51	0.58	1.72	2.06	2.52	2.90	3.25	3.60	3.98	4.41	4.96	5.78	6.52
July	4.80	8.37	0.57	2.43	2.83	3.38	3.81	4.21	4.61	5.03	5.51	6.11	7.01	7.81
August	4.39	4.82	0.91	1.69	2.10	2.68	3.17	3.62	4.09	4.59	5.18	5.92	7.05	8.08
September	3.64	2.43	1.50	0.81	1.14	1.68	2.16	2.64	3.15	3.73	4.41	5.32	6.76	8.12
October	2.58	1.22	2.11	0.21	0.38	0.72	1.07	1.47	1.92	2.45	3.13	4.07	5.65	7.20
November	2.53	1.81	1.40	0.39	0.61	0.97	1.32	1.68	2.08	2.53	3.08	3.83	5.02	6.16
December	3.86	3.35	1.15	1.15	1.52	2.07	2.54	3.00	3.48	4.01	4.63	5.43	6.69	7.85

South Carolina Southern Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.75	3.47	0.79	0.85	1.11	1.50	1.83	2.16	2.49	2.86	3.30	3.86	4.73	5.54
February	3.57	2.61	1.37	0.85	1.19	1.71	2.18	2.64	3.13	3.67	4.33	5.18	6.53	7.80
March	4.02	2.57	1.57	0.95	1.32	1.91	2.44	2.96	3.51	4.13	4.87	5.84	7.38	8.82
April	3.12	4.04	0.77	1.07	1.37	1.80	2.16	2.51	2.87	3.26	3.71	4.29	5.20	6.03
May	3.54	3.95	0.90	1.20	1.53	2.02	2.43	2.83	3.24	3.68	4.20	4.87	5.89	6.82
June	5.09	4.69	1.08	1.93	2.40	3.08	3.65	4.18	4.73	5.32	6.01	6.88	8.22	9.44
July	6.73	7.21	0.93	3.20	3.78	4.58	5.23	5.82	6.42	7.06	7.79	8.70	10.08	11.31
August	6.16	6.39	0.96	2.77	3.31	4.07	4.69	5.26	5.84	6.46	7.16	8.06	9.41	10.63
September	5.04	3.58	1.41	1.59	2.07	2.78	3.38	3.97	4.58	5.25	6.03	7.04	8.61	10.07
October	2.81	1.58	1.78	0.36	0.58	0.98	1.37	1.78	2.24	2.77	3.43	4.32	5.78	7.18
November	2.15	2.55	0.84	0.50	0.70	1.02	1.30	1.58	1.88	2.21	2.60	3.12	3.95	4.72
December	2.75	2.69	1.02	0.68	0.94	1.34	1.69	2.05	2.42	2.83	3.33	3.97	5.00	5.95

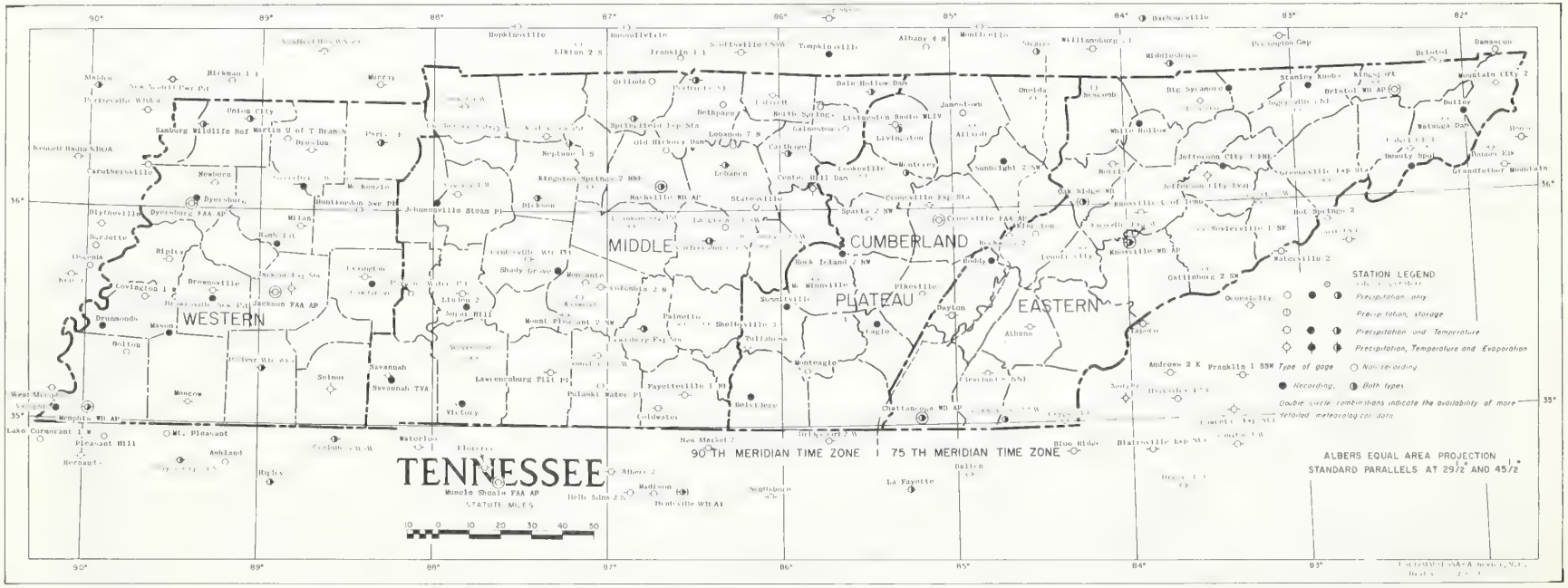
TENNESSEE
WESTERN
MIDDLE
CUMBERLAND
PLATEAU
EASTERN
STATION LEGEND
Precipitation only
Precip'tation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage
Recording,
Non-recording
Both types
Double circle combinations indicate the availability of more detailed meteorological data
90 TH MERIDIAN TIME ZONE
75 TH MERIDIAN TIME ZONE
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29½° AND 45½°
STATUTE MILES
10 0 10 20 30 40 50

TABLE 96 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Nashville, Tennessee

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.07	2.34	2.17	1.08	1.55	2.29	2.97	3.64	4.37	5.18	6.16	7.45	9.51	11.45
February	4.48	3.10	1.45	1.26	1.68	2.33	2.89	3.44	4.01	4.65	5.40	6.37	7.90	9.33
March	5.30	4.76	1.11	2.03	2.52	3.22	3.81	4.36	4.93	5.54	6.25	7.15	8.53	9.78
April	3.95	6.61	0.60	1.80	2.15	2.63	3.02	3.39	3.75	4.14	4.59	5.15	6.00	6.76
May	3.81	3.42	1.11	1.16	1.52	2.06	2.52	2.97	3.44	3.96	4.56	5.34	6.56	7.69
June	3.27	2.46	1.33	0.74	1.04	1.52	1.95	2.38	2.84	3.36	3.97	4.78	6.07	7.28
July	3.81	3.21	1.18	1.10	1.46	2.01	2.48	2.94	3.42	3.95	4.58	5.39	6.65	7.83
August	3.03	3.26	0.93	0.89	1.18	1.61	1.98	2.35	2.73	3.15	3.64	4.28	5.28	6.21
September	2.99	2.21	1.35	0.60	0.87	1.31	1.71	2.11	2.55	3.04	3.63	4.42	5.67	6.86
October	2.11	1.53	1.38	0.25	0.42	0.72	1.01	1.32	1.67	2.08	2.58	3.26	4.37	5.46
November	3.23	3.22	1.00	0.94	1.24	1.71	2.11	2.50	2.90	3.35	3.88	4.57	5.65	6.65
December	4.16	3.57	1.17	1.31	1.70	2.29	2.79	3.27	3.78	4.33	4.98	5.81	7.11	8.31

Division--Tennessee Middle Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.71	2.73	2.09	1.43	1.97	2.80	3.54	4.26	5.03	5.89	6.90	8.23	10.33	12.28
February	4.63	1.97	2.35	0.81	1.21	1.89	2.52	3.17	3.87	4.66	5.63	6.91	8.97	10.90
March	5.73	7.88	0.73	2.83	3.32	3.98	4.51	5.00	5.49	6.00	6.59	7.33	8.43	9.40
April	4.42	8.82	0.50	2.29	2.65	3.14	3.54	3.90	4.25	4.63	5.06	5.60	6.39	7.10
May	3.92	4.30	0.91	1.40	1.77	2.31	2.75	3.18	3.62	4.10	4.65	5.36	6.45	7.46
June	3.82	5.45	0.70	1.58	1.93	2.42	2.83	3.21	3.59	4.01	4.48	5.09	6.01	6.85
July	4.30	8.36	0.51	2.18	2.54	3.02	3.41	3.77	4.13	4.50	4.93	5.47	6.28	7.00
August	3.44	5.62	0.61	1.45	1.76	2.20	2.56	2.90	3.24	3.61	4.03	4.57	5.38	6.12
September	3.16	3.45	0.91	0.97	1.27	1.71	2.10	2.47	2.86	3.28	3.78	4.43	5.43	6.36
October	2.52	2.08	1.21	0.47	0.69	1.06	1.41	1.76	2.13	2.56	3.07	3.76	4.86	5.91
November	3.96	4.00	0.99	1.35	1.72	2.27	2.73	3.17	3.63	4.12	4.70	5.43	6.57	7.59
December	4.58	3.85	1.19	1.52	1.96	2.59	3.13	3.65	4.19	4.77	5.45	6.33	7.68	8.92

TABLE 97 - Precipitation Probabilities for Climatic Divisions

Tennessee Eastern Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.73	4.35	1.09	1.71	2.15	2.79	3.33	3.85	4.37	4.94	5.61	6.46	7.77	8.97
February	4.81	5.22	0.92	1.94	2.39	3.01	3.53	4.01	4.51	5.04	5.66	6.44	7.63	8.72
March	5.32	8.27	0.64	2.68	3.13	3.73	4.22	4.66	5.11	5.58	6.11	6.78	7.79	8.68
April	4.00	8.34	0.48	2.03	2.36	2.81	3.18	3.51	3.84	4.20	4.60	5.10	5.85	6.52
May	3.64	7.53	0.48	1.76	2.08	2.50	2.84	3.16	3.48	3.81	4.20	4.68	5.40	6.05
June	3.83	8.15	0.47	1.92	2.24	2.68	3.03	3.35	3.67	4.01	4.40	4.88	5.61	6.26
July	5.30	10.22	0.52	2.90	3.32	3.88	4.32	4.73	5.13	5.55	6.03	6.62	7.51	8.29
August	4.02	8.50	0.47	2.05	2.39	2.84	3.20	3.53	3.86	4.22	4.61	5.11	5.86	6.52
September	2.91	4.61	0.63	1.09	1.37	1.76	2.08	2.39	2.70	3.05	3.44	3.95	4.73	5.43
October	2.63	2.07	1.27	0.49	0.72	1.11	1.47	1.83	2.22	2.67	3.21	3.93	5.08	6.18
November	3.38	3.80	0.89	1.11	1.43	1.90	2.30	2.69	3.09	3.52	4.03	4.68	5.69	6.61
December	4.28	4.03	1.06	1.47	1.87	2.46	2.96	3.44	3.93	4.47	5.09	5.90	7.14	8.28

Tennessee Cumberland Plateau Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.70	3.31	1.72	1.69	2.23	3.04	3.74	4.42	5.13	5.92	6.84	8.03	9.90	11.63
February	4.54	2.96	1.53	1.22	1.65	2.30	2.88	3.44	4.03	4.68	5.46	6.46	8.03	9.46
March	6.01	9.15	0.66	3.15	3.65	4.31	4.83	5.31	5.79	6.30	6.87	7.59	8.66	9.61
April	4.52	7.62	0.59	2.20	2.59	3.12	3.54	3.93	4.32	4.74	5.22	5.81	6.70	7.50
May	3.92	5.71	0.69	1.66	2.02	2.52	2.93	3.31	3.69	4.11	4.59	5.19	6.11	6.94
June	4.34	5.18	0.84	1.75	2.15	2.71	3.18	3.62	4.06	4.55	5.10	5.81	6.89	7.87
July	5.09	7.62	0.67	2.48	2.92	3.51	3.99	4.43	4.87	5.34	5.87	6.54	7.54	8.44
August	3.96	7.55	0.52	1.92	2.26	2.72	3.09	3.44	3.78	4.15	4.57	5.09	5.88	6.58
September	3.42	3.65	0.94	1.09	1.42	1.90	2.31	2.71	3.12	3.57	4.09	4.77	5.82	6.79
October	2.69	1.82	1.48	0.42	0.65	1.04	1.41	1.79	2.21	2.69	3.28	4.06	5.33	6.54
November	4.07	4.13	0.99	1.42	1.80	2.36	2.83	3.28	3.75	4.25	4.84	5.59	6.75	7.82
December	5.16	4.13	1.25	1.80	2.29	3.00	3.59	4.16	4.75	5.39	6.14	7.09	8.57	9.92

TABLE 98 - Precipitation Probabilities for Climatic Divisions

Tennessee Western Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	5.57	2.10	2.65	1.05	1.55	2.36	3.12	3.88	4.71	5.65	6.78	8.28	10.70	13.00
February	4.16	1.89	2.21	0.68	1.04	1.65	2.22	2.81	3.45	4.18	5.07	6.26	8.17	9.98
March	5.54	6.59	0.84	2.52	3.01	3.69	4.24	4.74	5.26	5.80	6.43	7.22	8.41	9.49
April	4.51	7.48	0.60	2.18	2.57	3.09	3.52	3.91	4.31	4.73	5.20	5.80	6.70	7.51
May	4.11	4.25	0.97	1.46	1.85	2.41	2.88	3.33	3.79	4.30	4.88	5.63	6.78	7.84
June	3.90	3.20	1.22	1.12	1.49	2.05	2.53	3.01	3.50	4.04	4.69	5.52	6.82	8.03
July	4.06	6.02	0.68	1.77	2.14	2.65	3.06	3.45	3.84	4.26	4.75	5.35	6.28	7.12
August	3.06	3.93	0.78	1.03	1.32	1.75	2.10	2.45	2.80	3.19	3.64	4.22	5.11	5.91
September	3.40	2.28	1.49	0.71	1.02	1.52	1.97	2.43	2.92	3.48	4.14	5.02	6.42	7.75
October	2.61	1.48	1.76	0.30	0.50	0.87	1.23	1.62	2.05	2.56	3.19	4.04	5.46	6.83
November	4.21	3.30	1.28	1.24	1.64	2.25	2.76	3.27	3.80	4.38	5.06	5.94	7.33	8.61
December	4.43	3.89	1.14	1.48	1.90	2.52	3.04	3.54	4.05	4.61	5.27	6.11	7.41	8.59

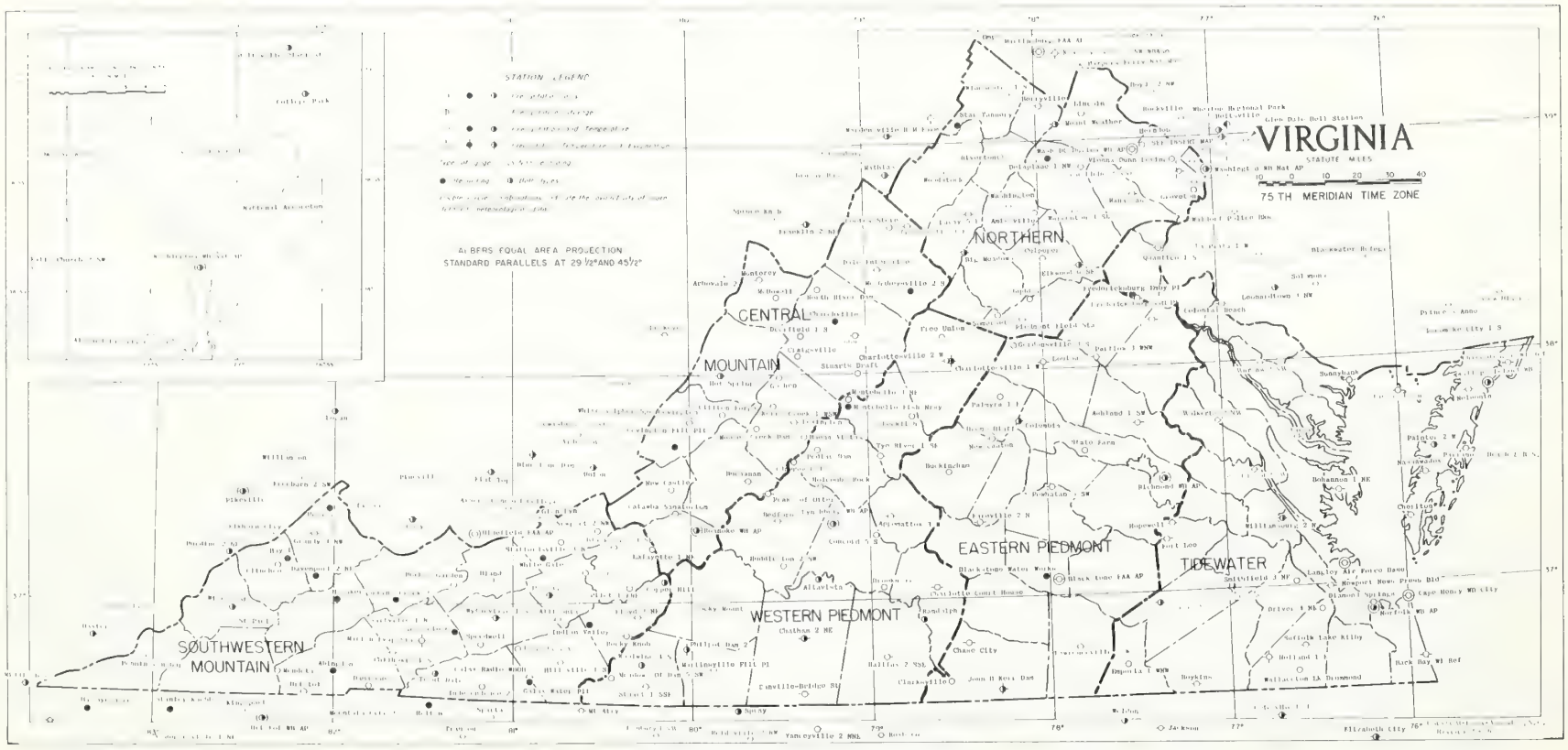
VIRGINIA
STATUTE MILES
10 0 10 20 30 40
75 TH MERIDIAN TIME ZONE
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29 1/2° AND 45 1/2°
NORTHERN
CENTRAL
MOUNTAIN
EASTERN PIEDMONT
TIDEWATER
WESTERN PIEDMONT
SOUTHWESTERN
MOUNTAIN

TABLE 99 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Richmond, Virginia

Probabilities (Based on 30 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.03	5.40	0.56	1.25	1.52	1.91	2.24	2.54	2.84	3.17	3.55	4.04	4.77	5.44
February	3.06	5.79	0.53	1.31	1.58	1.97	2.28	2.58	2.88	3.20	3.57	4.04	4.75	5.38
March	3.37	6.24	0.54	1.50	1.80	2.21	2.55	2.87	3.19	3.53	3.93	4.42	5.17	5.85
April	2.84	4.74	0.60	1.08	1.35	1.73	2.04	2.34	2.64	2.97	3.36	3.84	4.58	5.26
May	3.50	3.66	0.96	1.12	1.45	1.94	2.36	2.77	3.19	3.64	4.18	4.87	5.95	6.93
June	3.87	3.51	1.10	1.20	1.57	2.11	2.58	3.04	3.51	4.02	4.63	5.41	6.63	7.76
July	5.62	2.37	2.37	1.22	1.74	2.56	3.31	4.05	4.85	5.75	6.82	8.24	10.50	12.63
August	5.19	1.97	2.64	0.90	1.36	2.12	2.82	3.55	4.33	5.23	6.31	7.75	10.06	12.22
September	3.62	3.11	1.16	1.02	1.36	1.88	2.33	2.78	3.24	3.75	4.36	5.14	6.37	7.52
October	3.07	2.09	1.46	0.58	0.85	1.30	1.72	2.14	2.59	3.11	3.74	4.57	5.90	7.17
November	3.22	2.09	1.54	0.60	0.89	1.36	1.80	2.24	2.72	3.27	3.93	4.80	6.20	7.54
December	3.07	4.62	0.67	1.15	1.44	1.85	2.20	2.52	2.85	3.22	3.63	4.17	4.99	5.73

Division--Virginia Eastern Piedmont Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.45	4.64	0.74	1.30	1.62	2.08	2.47	2.83	3.21	3.61	4.08	4.68	5.59	6.43
February	3.09	7.37	0.42	1.48	1.75	2.11	2.41	2.68	2.95	3.24	3.57	3.98	4.61	5.17
March	3.77	8.54	0.44	1.93	2.24	2.67	3.00	3.32	3.63	3.95	4.33	4.79	5.49	6.11
April	3.41	5.48	0.62	1.42	1.73	2.17	2.53	2.87	3.21	3.58	4.00	4.54	5.36	6.11
May	3.54	4.12	0.86	1.23	1.57	2.06	2.47	2.86	3.26	3.70	4.21	4.87	5.89	6.82
June	3.79	6.71	0.57	1.75	2.08	2.54	2.91	3.26	3.60	3.98	4.40	4.94	5.74	6.46
July	4.89	5.89	0.83	2.11	2.55	3.16	3.66	4.13	4.61	5.12	5.70	6.44	7.55	8.55
August	4.62	3.43	1.35	1.41	1.85	2.50	3.06	3.61	4.18	4.80	5.53	6.48	7.96	9.33
September	3.54	3.39	1.04	1.07	1.41	1.91	2.34	2.76	3.20	3.68	4.25	4.98	6.12	7.18
October	2.86	2.51	1.14	0.66	0.93	1.34	1.72	2.10	2.49	2.94	3.47	4.17	5.28	6.32
November	3.04	2.42	1.26	0.67	0.96	1.40	1.80	2.21	2.64	3.12	3.70	4.45	5.66	6.81
December	3.04	3.96	0.77	1.03	1.32	1.74	2.09	2.43	2.78	3.17	3.61	4.18	5.06	5.85

TABLE 100-- Precipitation Probabilities for Climatic Divisions

Virginia Tidewater Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.40	5.86	0.58	1.46	1.77	2.20	2.55	2.87	3.21	3.56	3.97	4.48	5.26	5.96
February	3.12	7.20	0.43	1.48	1.75	2.12	2.42	2.70	2.98	3.27	3.61	4.03	4.67	5.25
March	3.58	9.81	0.36	1.93	2.21	2.60	2.90	3.18	3.45	3.74	4.07	4.48	5.09	5.62
April	3.15	6.80	0.46	1.46	1.74	2.12	2.43	2.71	3.00	3.31	3.66	4.10	4.76	5.36
May	3.51	3.86	0.91	1.17	1.50	1.99	2.40	2.80	3.20	3.65	4.17	4.84	5.88	6.82
June	3.81	7.10	0.54	1.80	2.13	2.58	2.95	3.29	3.63	3.99	4.41	4.93	5.71	6.42
July	5.23	6.31	0.83	2.34	2.80	3.45	3.97	4.46	4.96	5.49	6.09	6.86	8.01	9.06
August	5.11	4.18	1.22	1.80	2.28	2.98	3.57	4.13	4.71	5.34	6.07	7.01	8.46	9.79
September	3.89	3.38	1.15	1.17	1.54	2.09	2.57	3.03	3.51	4.04	4.66	5.46	6.72	7.88
October	3.03	2.85	1.06	0.79	1.07	1.51	1.90	2.28	2.68	3.13	3.65	4.34	5.42	6.42
November	2.98	2.81	1.06	0.76	1.05	1.48	1.86	2.24	2.63	3.07	3.60	4.28	5.35	6.35
December	2.85	5.30	0.54	1.16	1.42	1.79	2.10	2.38	2.68	2.99	3.35	3.81	4.51	5.15

Virginia Western Piedmont Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.37	4.52	0.75	1.25	1.57	2.02	2.40	2.76	3.13	3.53	3.99	4.59	5.50	6.33
February	3.17	5.78	0.55	1.35	1.64	2.04	2.37	2.68	2.99	3.32	3.71	4.19	4.93	5.59
March	3.98	7.42	0.54	1.92	2.26	2.73	3.10	3.45	3.80	4.17	4.60	5.13	5.93	6.64
April	3.58	7.25	0.49	1.71	2.02	2.44	2.78	3.10	3.42	3.75	4.14	4.62	5.35	6.01
May	3.79	5.50	0.69	1.58	1.92	2.41	2.81	3.18	3.56	3.97	4.44	5.04	5.95	6.77
June	4.03	6.30	0.64	1.80	2.16	2.66	3.06	3.44	3.82	4.23	4.70	5.29	6.18	6.99
July	4.76	10.43	0.46	2.62	3.00	3.50	3.89	4.25	4.61	4.99	5.41	5.94	6.72	7.41
August	4.49	3.69	1.22	1.45	1.87	2.50	3.04	3.56	4.09	4.68	5.37	6.25	7.62	8.88
September	3.95	2.23	1.77	0.80	1.16	1.74	2.26	2.80	3.37	4.02	4.80	5.83	7.48	9.05
October	3.03	2.32	1.31	0.64	0.92	1.36	1.77	2.17	2.61	3.10	3.68	4.46	5.69	6.86
November	3.03	2.59	1.17	0.72	1.00	1.45	1.84	2.23	2.65	3.11	3.67	4.40	5.55	6.63
December	3.24	3.84	0.84	1.07	1.38	1.83	2.21	2.58	2.96	3.37	3.86	4.48	5.44	6.31

TABLE 101 - Precipitation Probabilities for Climatic Divisions

Virginia Northern Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.79	4.82	0.58	1.08	1.33	1.70	2.01	2.30	2.60	2.92	3.29	3.76	4.48	5.13
February	2.50	5.84	0.43	1.07	1.30	1.62	1.87	2.11	2.36	2.62	2.92	3.30	3.88	4.39
March	3.45	6.44	0.54	1.56	1.86	2.29	2.63	2.95	3.27	3.62	4.01	4.51	5.26	5.94
April	3.30	5.20	0.63	1.33	1.64	2.06	2.42	2.75	3.09	3.46	3.88	4.42	5.24	5.99
May	3.89	4.62	0.84	1.46	1.83	2.35	2.78	3.19	3.62	4.07	4.60	5.28	6.31	7.26
June	3.66	9.07	0.40	1.91	2.21	2.62	2.94	3.23	3.53	3.84	4.19	4.62	5.28	5.86
July	4.11	5.67	0.72	1.74	2.11	2.63	3.06	3.46	3.87	4.31	4.81	5.44	6.41	7.28
August	4.37	4.20	1.04	1.55	1.96	2.56	3.06	3.54	4.03	4.57	5.20	6.00	7.23	8.37
September	3.36	4.07	0.83	1.16	1.48	1.94	2.33	2.70	3.09	3.50	3.99	4.62	5.59	6.48
October	3.23	1.75	1.85	0.48	0.75	1.21	1.66	2.13	2.64	3.22	3.94	4.90	6.47	7.97
November	2.94	2.62	1.12	0.71	0.98	1.41	1.79	2.17	2.58	3.02	3.56	4.26	5.37	6.41
December	2.74	3.41	0.80	0.83	1.09	1.48	1.82	2.14	2.48	2.85	3.28	3.85	4.73	5.54

Virginia Central Mountain Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.85	4.26	0.67	1.02	1.28	1.67	2.00	2.31	2.63	2.98	3.38	3.90	4.70	5.43
February	2.71	4.75	0.57	1.04	1.29	1.65	1.95	2.23	2.52	2.84	3.20	3.66	4.37	5.01
March	3.54	6.85	0.52	1.64	1.95	2.38	2.72	3.04	3.36	3.71	4.10	4.59	5.33	5.99
April	3.04	6.15	0.49	1.34	1.61	1.99	2.30	2.58	2.87	3.18	3.54	3.99	4.67	5.29
May	3.68	5.45	0.67	1.52	1.86	2.33	2.72	3.09	3.46	3.86	4.32	4.90	5.79	6.59
June	3.74	9.56	0.39	2.00	2.30	2.70	3.03	3.32	3.61	3.92	4.27	4.70	5.35	5.92
July	4.18	9.21	0.45	2.20	2.54	3.00	3.37	3.70	4.03	4.39	4.78	5.28	6.02	6.68
August	4.22	3.58	1.18	1.33	1.73	2.33	2.83	3.33	3.83	4.39	5.05	5.89	7.21	8.42
September	3.29	3.17	1.04	0.94	1.25	1.73	2.14	2.54	2.95	3.42	3.96	4.67	5.77	6.80
October	2.96	1.95	1.52	0.51	0.77	1.20	1.60	2.01	2.46	2.97	3.60	4.42	5.75	6.99
November	2.69	3.12	0.86	0.76	1.02	1.40	1.74	2.07	2.41	2.79	3.24	3.82	4.74	5.59
December	2.78	4.07	0.68	0.96	1.22	1.61	1.93	2.24	2.55	2.90	3.31	3.82	4.62	5.36

TABLE 102 - Precipitation Probabilities for
Climatic Divisions

Virginia Southwestern Mountain Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.57	5.24	0.68	1.45	1.77	2.24	2.62	2.98	3.35	3.74	4.20	4.77	5.66	6.46
February	3.54	6.30	0.56	1.58	1.89	2.33	2.69	3.02	3.35	3.71	4.12	4.64	5.42	6.13
March	4.25	9.22	0.46	2.24	2.58	3.05	3.42	3.76	4.09	4.45	4.85	5.36	6.11	6.78
April	3.38	7.10	0.48	1.60	1.89	2.30	2.62	2.92	3.23	3.55	3.92	4.38	5.08	5.71
May	3.81	5.74	0.66	1.62	1.96	2.45	2.84	3.21	3.59	3.99	4.45	5.04	5.93	6.73
June	3.92	10.31	0.38	2.15	2.46	2.87	3.20	3.50	3.80	4.11	4.46	4.90	5.55	6.12
July	4.87	13.51	0.36	2.91	3.27	3.73	4.10	4.43	4.75	5.09	5.47	5.93	6.62	7.23
August	4.18	6.53	0.64	1.90	2.27	2.78	3.19	3.58	3.97	4.38	4.86	5.46	6.36	7.18
September	3.06	4.03	0.76	1.05	1.34	1.76	2.12	2.46	2.82	3.20	3.65	4.22	5.11	5.93
October	2.54	2.28	1.12	0.53	0.76	1.13	1.47	1.82	2.18	2.60	3.09	3.75	4.80	5.79
November	2.76	5.30	0.52	1.12	1.38	1.73	2.03	2.31	2.59	2.89	3.24	3.68	4.36	4.98
December	3.23	4.67	0.69	1.22	1.52	1.95	2.31	2.65	3.00	3.37	3.81	4.37	5.22	5.99

WEST VIRGINIA
STATUTE MILES
10 0 10 20 30 40
75TH MERIDIAN TIME ZONE
NORTHWESTERN
NORTH CENTRAL
NORTHEASTERN
SOUTHWESTERN
CENTRAL
SOUTHERN
SEE INSERT MAP
Claysville 3 W
Barnesville Wtr Wks
Waynesburg 1 E
Uniontown
Clarington Lock 14
Greensboro Lock 7
Lake Lynn
Confluence 1 SW Dam
McConnelsville Lock 7
Hundred
Morgantown FAA AP
Brandonville
Frostburg
Cumberland Police Brks
Cumberland
Hancock Fruit Lab
Hagerstown
Chewsville Bridgeport
Berkeley Springs
Duffy Dam 15
New Martinsville
Hastings
Morgantown L and D
Bittinger 2 NW
Sines Deep Creek 2
Savage River Dam
Picardy
Omps
Martinsburg 2 W
Martinsburg FAA AP
Frederick WFMD
Kearneysville 1 NW WBASO
Harpers Ferry
Harpers Ferry Nat Mon
Wheeling Warwood Dam 12
New Matamoras Dam 16
Middlebourne 2 ESE
Mannington 1 N
Mannington 1 W
Hoult Lock 15
Reedsville Exp Frm
Albright
Fairmont
Terra Alta
Terra Alta No.1
Westernport
Luke
Piedmont
Oakland 1 SE
Romney 3 NNE
Marietta Sewage Tmt Pl
Bens Run 1 SSE
Parkersburg FAA AP
Mc Mechen Dam 13
Moundsville
Tygart Dam
Rowlesburg 1
Mt Storm
Washington Dam 19
Parkersburg WB City
Ellenboro
West Union
Smithburg
Clarksburg 1
Bayard
Moorefield-McNeill
Winchester 1 N
Berryville
Lincoln
Belleville Dam 20
Cairo 3 S
Smithville
Philippi
Parsons 1 SE
Thomas
Davis
Canaan Valley
Stony River Dam
Star Tannery
Moorefield 2 SSE Wardensville R M Farm
Mount Weather
Portland Dam 21
Freemansburg
Jane Lew
Hall
Belington
Weston
Buckhannon 2 W
Horner
Petersburg
Ravenswood Dam 22
Racine Dam 23
Creston 1 SSW
Liverpool
Grantsville 2 NW
Glenville
Vandalia
Elkins WB AP
Alpena 1 NW
Mathias
Woodstock
Point Pleasant 5 NNE
Gallipolis 5 W
Ripley
Spencer
Lockney
Burnsville
Ireland
Brushy Run
Valley Bend
Hogsett Gallipolis Dam
Tribble
Gassaway
Hacker Valley
Pickens 1
Spruce Knob
Franklin 2 NE
Timberville 3 E
Sutton Rsvr
Centralia
Valley Head
Ironton
Winfield Locks
Ashland
Huntington Fed Bldg
Clendenin 1 SW
Corton
Clay 1
Widen
Webster Springs 1 E
Arbovale 2
Monterey
Dale Enterprise
North River Dam
Huntington WB AP
Charleston WB AP
Charleston 1
Birch River 6 SSW
Camden on Gauley
Hamlin
Branchland
Summersville Res
Wayne 2
Griffithsville
Belva
Richwood
Marlinton
Buckeye
Staunton Swg Plt
Louisa 2
London Locks
Hico
Raine 2 W
Dunlow 5 E
Madison
Oak Hill
East Rainelle 3 NNE
McRoss
Renick 2 S
Hot Springs
Tomahawk 1 WSW
Kermit
Logan
Naoma
Dry Creek
Beckley V A Hosp
Beckley WB AP
White Sulphur Springs
Kopperston
Alderson
Lewisburg 2 SSW
Williamson
Williamson 2
Bluestone Dam
Union
Pineville
Flat Top
Freeborn 3 SW
Pikeville
Hurley
Iaeger
Gary
Matoaka 1 S
Athens Concord College
Lindside
Princeton
Glen Lyn
Bluefield FAA AP
Newport 2 NW
Staffordsville 3 N
Grundy 3 NW
Burkes Garden
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature, and Evaporation
Type of gage: Non-recording,
Recording, Both types
Double circle combinations indicate the availability of more detailed meteorological data
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29½° AND 45½°
USCOMM-ESSA-Asheville, N C.
Revised 7 - 67

TABLE 103 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Charleston, West Virginia

Probabilities (Based on 37 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.64	1.15	3.16	0.26	0.49	0.95	1.45	2.01	2.65	3.43	4.41	5.78	8.09	10.37
February	3.25	1.21	2.68	0.26	0.47	0.90	1.35	1.84	2.41	3.09	3.95	5.14	7.14	9.11
March	3.92	1.22	3.20	0.32	0.58	1.09	1.63	2.23	2.92	3.73	4.77	6.19	8.58	10.94
April	3.44	1.97	1.75	0.60	0.90	1.40	1.87	2.35	2.88	3.47	4.19	5.14	6.67	8.11
May	3.48	1.79	1.94	0.53	0.83	1.33	1.81	2.31	2.85	3.48	4.24	5.26	6.92	8.49
June	3.32	1.19	2.79	0.25	0.47	0.90	1.36	1.86	2.45	3.15	4.03	5.26	7.32	9.36
July	5.30	1.13	4.67	0.37	0.69	1.37	2.09	2.91	3.85	4.98	6.43	8.44	11.83	15.19
August	3.54	1.11	3.20	0.23	0.45	0.89	1.37	1.91	2.55	3.31	4.29	5.64	7.95	10.23
September	2.64	1.08	2.45	0.16	0.32	0.65	1.01	1.41	1.89	2.46	3.20	4.23	5.97	7.71
October	2.24	0.98	2.28	0.11	0.23	0.49	0.78	1.13	1.54	2.04	2.69	3.61	5.18	6.75
November	2.73	1.12	2.45	0.18	0.35	0.69	1.06	1.48	1.97	2.56	3.31	4.35	6.12	7.87
December	2.82	1.79	1.57	0.43	0.67	1.08	1.47	1.87	2.31	2.82	3.44	4.27	5.61	6.89

Division--West Virginia Southwestern Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.65	4.97	0.73	1.43	1.77	2.25	2.65	3.02	3.41	3.82	4.29	4.90	5.82	6.64
February	3.29	4.72	0.70	1.25	1.56	1.99	2.36	2.70	3.06	3.44	3.88	4.44	5.31	6.09
March	4.29	7.72	0.56	2.10	2.47	2.97	3.37	3.74	4.11	4.50	4.95	5.50	6.34	7.09
April	3.54	7.07	0.50	1.67	1.98	2.40	2.74	3.06	3.37	3.71	4.10	4.58	5.31	5.97
May	3.70	4.91	0.75	1.44	1.78	2.27	2.67	3.06	3.45	3.87	4.35	4.97	5.91	6.75
June	4.08	9.91	0.41	2.21	2.53	2.97	3.32	3.63	3.94	4.27	4.65	5.11	5.79	6.39
July	5.02	9.41	0.53	2.66	3.07	3.61	4.05	4.45	4.84	5.26	5.73	6.32	7.19	7.97
August	3.68	7.25	0.51	1.75	2.07	2.51	2.86	3.18	3.51	3.86	4.25	4.75	5.50	6.17
September	2.89	5.15	0.56	1.16	1.43	1.80	2.12	2.41	2.71	3.03	3.40	3.88	4.60	5.26
October	2.27	2.45	0.93	0.51	0.72	1.05	1.35	1.65	1.97	2.33	2.75	3.32	4.21	5.06
November	2.81	4.48	0.63	1.04	1.30	1.68	1.99	2.30	2.60	2.94	3.33	3.82	4.59	5.29
December	2.98	4.03	0.74	1.02	1.31	1.72	2.06	2.40	2.74	3.11	3.55	4.11	4.97	5.77

TABLE 104 - Precipitation Probabilities for Climatic Divisions

West Virginia Northwestern Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.28	4.09	0.80	1.14	1.45	1.90	2.28	2.64	3.02	3.43	3.90	4.51	5.46	6.32
February	2.82	4.94	0.57	1.10	1.36	1.73	2.04	2.33	2.63	2.95	3.32	3.79	4.50	5.14
March	3.90	5.91	0.66	1.68	2.04	2.53	2.93	3.30	3.68	4.08	4.55	5.14	6.02	6.81
April	3.61	7.21	0.50	1.72	2.03	2.46	2.81	3.13	3.45	3.79	4.18	4.67	5.41	6.07
May	3.80	5.69	0.67	1.61	1.95	2.43	2.83	3.20	3.58	3.98	4.44	5.03	5.92	6.73
June	4.34	7.62	0.57	2.11	2.48	2.99	3.40	3.77	4.15	4.55	5.00	5.57	6.43	7.20
July	4.30	9.48	0.45	2.29	2.63	3.10	3.47	3.81	4.15	4.50	4.90	5.40	6.15	6.82
August	3.88	5.22	0.74	1.57	1.93	2.43	2.85	3.24	3.64	4.07	4.56	5.19	6.15	7.03
September	3.00	4.56	0.66	1.12	1.40	1.80	2.14	2.46	2.79	3.14	3.55	4.08	4.89	5.62
October	2.40	3.00	0.80	0.66	0.88	1.23	1.53	1.83	2.14	2.49	2.90	3.43	4.26	5.04
November	2.70	5.34	0.51	1.11	1.35	1.70	1.99	2.26	2.53	2.83	3.17	3.60	4.26	4.86
December	2.82	4.39	0.64	1.02	1.29	1.67	1.99	2.30	2.61	2.95	3.34	3.85	4.62	5.33

West Virginia North Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.74	5.42	0.69	1.54	1.88	2.37	2.76	3.13	3.51	3.92	4.39	4.98	5.89	6.71
February	3.23	7.34	0.44	1.55	1.83	2.21	2.52	2.80	3.09	3.39	3.74	4.17	4.82	5.41
March	4.21	8.10	0.52	2.11	2.46	2.94	3.33	3.68	4.04	4.42	4.84	5.38	6.18	6.90
April	3.75	8.98	0.42	1.95	2.26	2.67	3.00	3.30	3.60	3.92	4.28	4.73	5.39	5.97
May	4.06	5.56	0.73	1.70	2.07	2.59	3.02	3.42	3.82	4.26	4.76	5.40	6.37	7.25
June	4.73	8.72	0.54	2.43	2.83	3.35	3.77	4.16	4.54	4.95	5.41	5.99	6.85	7.61
July	4.81	11.14	0.43	2.71	3.08	3.58	3.96	4.32	4.67	5.04	5.45	5.96	6.73	7.40
August	4.41	5.72	0.77	1.87	2.27	2.83	3.29	3.72	4.15	4.62	5.15	5.83	6.86	7.79
September	3.33	5.46	0.61	1.38	1.68	2.11	2.46	2.79	3.13	3.49	3.91	4.43	5.24	5.96
October	2.74	2.78	0.98	0.70	0.95	1.35	1.70	2.05	2.42	2.82	3.30	3.93	4.93	5.85
November	2.98	5.05	0.59	1.18	1.46	1.85	2.17	2.47	2.78	3.12	3.51	4.00	4.75	5.44
December	3.30	4.80	0.69	1.27	1.58	2.02	2.38	2.72	3.07	3.46	3.90	4.45	5.31	6.08

TABLE 105 - Precipitation Probabilities for Climatic Divisions

West Virginia Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	4.11	8.62	0.48	2.11	2.45	2.91	3.27	3.61	3.95	4.30	4.71	5.21	5.97	6.64
February	3.83	10.71	0.36	2.13	2.43	2.83	3.14	3.43	3.71	4.01	4.35	4.76	5.38	5.93
March	4.85	11.89	0.41	2.79	3.16	3.65	4.03	4.37	4.72	5.07	5.48	5.97	6.71	7.35
April	4.07	13.20	0.31	2.42	2.71	3.11	3.41	3.69	3.96	4.25	4.57	4.97	5.55	6.07
May	4.56	7.39	0.62	2.19	2.59	3.12	3.56	3.96	4.36	4.78	5.27	5.88	6.80	7.62
June	4.88	14.21	0.34	2.97	3.31	3.77	4.13	4.45	4.77	5.10	5.47	5.93	6.60	7.19
July	5.40	12.20	0.44	3.13	3.54	4.07	4.49	4.88	5.25	5.65	6.09	6.64	7.45	8.17
August	4.75	7.44	0.64	2.29	2.70	3.26	3.71	4.12	4.54	4.98	5.49	6.12	7.07	7.93
September	3.42	6.90	0.50	1.59	1.89	2.30	2.63	2.94	3.25	3.58	3.96	4.43	5.14	5.77
October	3.13	3.23	0.97	0.91	1.21	1.65	2.04	2.42	2.81	3.25	3.76	4.42	5.46	6.42
November	3.19	7.30	0.44	1.52	1.80	2.18	2.48	2.76	3.04	3.34	3.68	4.11	4.76	5.34
December	3.62	6.84	0.53	1.68	2.00	2.43	2.79	3.11	3.44	3.79	4.19	4.70	5.45	6.13

West Virginia Southern Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	3.13	4.58	0.68	1.17	1.46	1.88	2.23	2.57	2.91	3.27	3.70	4.25	5.09	5.85
February	3.09	6.62	0.47	1.41	1.68	2.06	2.37	2.65	2.93	3.24	3.59	4.03	4.69	5.29
March	3.99	7.70	0.52	1.96	2.30	2.76	3.13	3.48	3.82	4.19	4.60	5.12	5.91	6.61
April	3.07	6.35	0.48	1.37	1.65	2.03	2.33	2.62	2.91	3.22	3.57	4.02	4.70	5.31
May	3.59	6.89	0.52	1.67	1.98	2.41	2.76	3.09	3.41	3.76	4.15	4.65	5.39	6.06
June	3.70	8.52	0.43	1.89	2.20	2.61	2.95	3.25	3.56	3.88	4.24	4.70	5.39	6.00
July	4.38	8.48	0.52	2.23	2.60	3.09	3.49	3.85	4.21	4.59	5.03	5.57	6.39	7.11
August	3.72	6.60	0.56	1.70	2.03	2.48	2.85	3.19	3.54	3.90	4.32	4.85	5.65	6.37
September	2.74	4.49	0.61	1.01	1.27	1.64	1.95	2.24	2.54	2.86	3.24	3.73	4.47	5.15
October	2.27	2.35	0.97	0.49	0.70	1.03	1.33	1.64	1.96	2.32	2.76	3.34	4.26	5.12
November	2.46	5.45	0.45	1.02	1.24	1.56	1.82	2.07	2.31	2.58	2.89	3.28	3.87	4.41
December	2.80	5.19	0.54	1.13	1.38	1.75	2.05	2.33	2.62	2.93	3.29	3.75	4.44	5.08

TABLE 106 - Precipitation Probabilities for Climatic Divisions

West Virginia Northeastern Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	2.36	4.61	0.51	0.89	1.11	1.42	1.69	1.94	2.20	2.47	2.80	3.21	3.84	4.41
February	2.14	4.97	0.43	0.84	1.04	1.32	1.55	1.77	1.99	2.24	2.52	2.87	3.41	3.89
March	3.17	5.78	0.55	1.35	1.64	2.04	2.37	2.68	2.99	3.32	3.70	4.19	4.92	5.59
April	2.96	5.62	0.53	1.24	1.51	1.89	2.20	2.49	2.78	3.10	3.46	3.92	4.62	5.26
May	3.45	5.66	0.61	1.46	1.77	2.21	2.57	2.90	3.25	3.61	4.04	4.57	5.38	6.12
June	3.58	11.16	0.32	2.02	2.29	2.66	2.95	3.22	3.48	3.75	4.06	4.44	5.01	5.51
July	3.57	8.87	0.40	1.85	2.14	2.54	2.85	3.14	3.43	3.73	4.08	4.51	5.15	5.71
August	3.80	3.93	0.97	1.28	1.64	2.17	2.61	3.04	3.48	3.96	4.52	5.24	6.35	7.35
September	2.79	3.99	0.70	0.95	1.22	1.60	1.93	2.24	2.56	2.91	3.32	3.84	4.64	5.36
October	2.86	1.96	1.46	0.50	0.75	1.16	1.55	1.95	2.39	2.88	3.48	4.27	5.55	6.74
November	2.32	3.32	0.70	0.69	0.91	1.24	1.53	1.81	2.10	2.41	2.79	3.28	4.04	4.74
December	2.21	3.79	0.58	0.73	0.94	1.25	1.51	1.76	2.02	2.31	2.64	3.07	3.73	4.33

WISCONSIN
STATUTE MILES
0 0 10 20 30 40
90TH MERIDIAN TIME ZONE
NORTHWEST
NORTH CENTRAL
NORTHEAST
WEST CENTRAL
CENTRAL
EAST CENTRAL
SOUTH WEST
SOUTH CENTRAL
SOUTH EAST
EAST CENTRAL
STATION LEGEND
Precipitation only
Precipitation, storage
Precipitation and Temperature
Precipitation, Temperature and Evaporation
Type of gage: Non-recording,
Recording
Both types
Soil Temperature
Double circle combinations indicate the availability of more detailed meteorological data
ALBERS EQUAL AREA PROJECTION
STANDARD PARALLELS AT 29½° AND 45½°
USCOMM-ESSA-Asheville, N.C.
Revised 4-67

TABLE 107 - Comparison of Station Data with Corresponding Climatic Division Data

Station--Madison, Wisconsin

Probabilities (Based on 28 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.26	2.88	0.44	0.33	0.45	0.63	0.79	0.95	1.12	1.30	1.52	1.80	2.24	2.65
February	1.01	2.02	0.50	0.18	0.27	0.42	0.56	0.70	0.85	1.02	1.23	1.51	1.96	2.39
March	1.99	5.74	0.35	0.84	1.02	1.28	1.48	1.68	1.87	2.08	2.32	2.63	3.09	3.51
April	2.60	4.98	0.52	1.02	1.26	1.60	1.88	2.15	2.42	2.71	3.05	3.48	4.13	4.71
May	3.33	5.65	0.59	1.41	1.71	2.13	2.48	2.81	3.14	3.49	3.90	4.42	5.21	5.92
June	4.18	5.52	0.76	1.74	2.12	2.66	3.10	3.51	3.93	4.38	4.90	5.55	6.56	7.46
July	3.86	4.86	0.79	1.49	1.85	2.36	2.79	3.19	3.59	4.04	4.55	5.19	6.18	7.08
August	3.34	4.12	0.81	1.17	1.48	1.94	2.33	2.70	3.08	3.49	3.98	4.59	5.55	6.43
September	3.11	1.86	1.67	0.50	0.77	1.22	1.65	2.09	2.57	3.12	3.79	4.68	6.12	7.49
October	2.18	1.35	1.62	0.21	0.37	0.67	0.97	1.30	1.67	2.11	2.66	3.42	4.67	5.90
November	1.97	3.06	0.64	0.55	0.73	1.02	1.26	1.51	1.76	2.04	2.37	2.80	3.48	4.11
December	1.38	3.55	0.39	0.43	0.56	0.76	0.92	1.08	1.25	1.43	1.65	1.93	2.36	2.76

Division--Wisconsin South Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.38	2.97	0.47	0.37	0.50	0.70	0.88	1.05	1.23	1.43	1.66	1.97	2.44	2.88
February	1.13	2.13	0.53	0.22	0.32	0.48	0.63	0.79	0.96	1.14	1.37	1.67	2.16	2.62
March	1.95	5.43	0.36	0.81	0.98	1.23	1.44	1.64	1.83	2.04	2.29	2.60	3.07	3.50
April	2.72	5.77	0.47	1.16	1.41	1.75	2.03	2.30	2.56	2.85	3.18	3.60	4.23	4.80
May	3.23	6.54	0.49	1.47	1.75	2.15	2.47	2.76	3.06	3.38	3.75	4.21	4.91	5.54
June	3.87	9.02	0.43	2.02	2.34	2.76	3.10	3.41	3.72	4.05	4.42	4.89	5.58	6.20
July	3.69	5.10	0.72	1.47	1.81	2.29	2.69	3.07	3.45	3.87	4.34	4.95	5.88	6.73
August	3.52	5.13	0.69	1.41	1.73	2.19	2.57	2.93	3.29	3.68	4.14	4.71	5.59	6.39
September	3.79	2.18	1.74	0.75	1.09	1.65	2.16	2.67	3.23	3.86	4.62	5.62	7.23	8.76
October	2.20	1.71	1.28	0.32	0.50	0.82	1.12	1.44	1.79	2.19	2.69	3.35	4.43	5.47
November	2.19	2.53	0.86	0.51	0.71	1.03	1.32	1.60	1.91	2.25	2.65	3.18	4.02	4.82
December	1.37	3.54	0.39	0.43	0.56	0.75	0.92	1.07	1.24	1.42	1.64	1.91	2.34	2.74

TABLE 108 - Precipitation Probabilities for Climatic Divisions

Wisconsin Northwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.88	2.70	0.33	0.22	0.30	0.43	0.54	0.66	0.78	0.91	1.07	1.27	1.60	1.91
February	0.84	2.61	0.32	0.20	0.28	0.40	0.51	0.62	0.74	0.87	1.02	1.22	1.54	1.84
March	1.49	3.44	0.43	0.46	0.60	0.81	0.99	1.17	1.35	1.55	1.79	2.09	2.57	3.01
April	2.41	5.27	0.46	0.98	1.20	1.51	1.77	2.01	2.26	2.53	2.83	3.22	3.81	4.35
May	3.83	6.31	0.61	1.71	2.05	2.52	2.91	3.26	3.63	4.01	4.46	5.01	5.86	6.62
June	4.38	6.42	0.68	1.97	2.36	2.90	3.34	3.75	4.16	4.60	5.10	5.73	6.69	7.56
July	3.71	4.74	0.78	1.42	1.76	2.26	2.67	3.06	3.45	3.88	4.38	5.01	5.98	6.87
August	4.20	5.48	0.77	1.74	2.13	2.67	3.11	3.53	3.95	4.40	4.93	5.59	6.60	7.52
September	3.36	3.66	0.92	1.08	1.40	1.87	2.27	2.66	3.06	3.50	4.02	4.68	5.71	6.66
October	1.94	2.73	0.71	0.49	0.67	0.95	1.20	1.45	1.71	2.00	2.35	2.80	3.51	4.17
November	1.79	3.49	0.51	0.55	0.72	0.98	1.19	1.40	1.62	1.86	2.14	2.51	3.07	3.60
December	1.06	2.65	0.40	0.26	0.36	0.51	0.65	0.78	0.93	1.09	1.28	1.53	1.93	2.30

Wisconsin North Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.11	3.32	0.33	0.33	0.43	0.59	0.73	0.86	1.00	1.15	1.33	1.56	1.93	2.26
February	1.06	3.18	0.33	0.30	0.40	0.55	0.69	0.81	0.95	1.10	1.27	1.50	1.85	2.18
March	1.53	3.74	0.41	0.50	0.64	0.86	1.04	1.21	1.39	1.59	1.82	2.12	2.58	3.00
April	2.40	6.04	0.40	1.05	1.27	1.57	1.81	2.04	2.27	2.52	2.80	3.16	3.71	4.20
May	3.77	7.56	0.50	1.83	2.16	2.60	2.95	3.28	3.61	3.96	4.36	4.85	5.60	6.27
June	4.53	5.80	0.78	1.94	2.35	2.92	3.39	3.82	4.27	4.74	5.29	5.98	7.03	7.97
July	3.81	6.49	0.59	1.73	2.06	2.53	2.91	3.26	3.62	4.00	4.43	4.98	5.81	6.55
August	4.23	7.04	0.60	1.99	2.36	2.86	3.27	3.65	4.03	4.43	4.90	5.48	6.35	7.14
September	3.83	3.93	0.97	1.29	1.65	2.18	2.63	3.06	3.50	3.99	4.55	5.27	6.39	7.40
October	2.18	2.79	0.78	0.56	0.76	1.08	1.36	1.64	1.93	2.25	2.64	3.14	3.93	4.66
November	2.13	4.07	0.52	0.74	0.94	1.23	1.48	1.71	1.96	2.22	2.53	2.93	3.55	4.11
December	1.21	3.69	0.33	0.39	0.50	0.67	0.82	0.96	1.10	1.26	1.44	1.68	2.05	2.39

TABLE 109 - Precipitation Probabilities for Climatic Divisions

Wisconsin Northeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.26	2.58	0.49	0.30	0.42	0.60	0.77	0.93	1.10	1.30	1.53	1.83	2.31	2.76
February	1.14	2.43	0.47	0.25	0.36	0.52	0.67	0.82	0.98	1.16	1.38	1.66	2.11	2.54
March	1.59	3.61	0.44	0.50	0.65	0.88	1.07	1.25	1.44	1.65	1.90	2.21	2.70	3.16
April	2.48	5.53	0.45	1.03	1.26	1.58	1.84	2.08	2.33	2.60	2.90	3.29	3.89	4.42
May	3.34	6.67	0.50	1.53	1.82	2.23	2.56	2.86	3.17	3.50	3.87	4.35	5.06	5.70
June	3.76	5.79	0.65	1.61	1.95	2.42	2.81	3.17	3.54	3.94	4.39	4.97	5.84	6.62
July	3.28	6.46	0.51	1.48	1.77	2.17	2.50	2.80	3.11	3.44	3.81	4.28	5.00	5.64
August	3.65	5.01	0.73	1.44	1.78	2.26	2.66	3.03	3.41	3.83	4.30	4.91	5.84	6.68
September	3.54	4.37	0.81	1.28	1.61	2.09	2.50	2.88	3.27	3.70	4.19	4.83	5.81	6.70
October	2.08	2.52	0.83	0.48	0.67	0.98	1.25	1.52	1.81	2.14	2.52	3.03	3.83	4.59
November	2.24	3.29	0.68	0.66	0.87	1.19	1.47	1.74	2.02	2.32	2.69	3.16	3.89	4.57
December	1.29	2.76	0.47	0.33	0.45	0.63	0.80	0.96	1.14	1.33	1.56	1.86	2.33	2.76

Wisconsin West Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	0.92	2.22	0.41	0.19	0.27	0.40	0.53	0.65	0.79	0.94	1.12	1.36	1.74	2.11
February	0.94	1.63	0.57	0.13	0.20	0.34	0.47	0.60	0.75	0.93	1.14	1.44	1.91	2.37
March	1.79	4.28	0.42	0.64	0.81	1.05	1.26	1.45	1.65	1.87	2.12	2.45	2.95	3.41
April	2.64	7.02	0.38	1.24	1.47	1.79	2.04	2.28	2.52	2.77	3.06	3.42	3.97	4.47
May	3.81	5.13	0.74	1.52	1.87	2.37	2.78	3.17	3.56	3.99	4.48	5.10	6.06	6.93
June	4.37	9.74	0.45	2.35	2.70	3.17	3.54	3.89	4.22	4.58	4.98	5.49	6.23	6.89
July	3.41	5.04	0.68	1.35	1.67	2.11	2.49	2.83	3.19	3.58	4.02	4.58	5.45	6.24
August	3.69	7.57	0.49	1.79	2.11	2.54	2.88	3.20	3.52	3.86	4.25	4.74	5.47	6.13
September	3.60	2.60	1.39	0.86	1.20	1.72	2.19	2.66	3.15	3.70	4.36	5.23	6.59	7.87
October	1.95	2.18	0.89	0.38	0.56	0.84	1.11	1.37	1.66	1.98	2.37	2.89	3.71	4.50
November	1.79	3.23	0.56	0.52	0.69	0.95	1.17	1.38	1.61	1.86	2.15	2.53	3.13	3.68
December	1.04	2.56	0.41	0.25	0.34	0.50	0.63	0.77	0.91	1.07	1.26	1.52	1.92	2.29

TABLE 110-- Precipitation Probabilities for Climatic Divisions

Wisconsin Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.07	2.64	0.40	0.26	0.36	0.51	0.65	0.79	0.93	1.10	1.29	1.54	1.95	2.32
February	1.05	2.06	0.51	0.19	0.29	0.44	0.59	0.73	0.89	1.07	1.29	1.57	2.04	2.48
March	1.73	3.90	0.44	0.58	0.74	0.98	1.18	1.38	1.58	1.80	2.05	2.38	2.89	3.35
April	2.75	7.00	0.39	1.29	1.53	1.86	2.12	2.37	2.61	2.88	3.18	3.55	4.11	4.61
May	3.62	5.38	0.67	1.49	1.82	2.28	2.67	3.03	3.39	3.79	4.24	4.82	5.70	6.50
June	4.26	7.43	0.57	2.06	2.42	2.92	3.33	3.70	4.07	4.47	4.93	5.49	6.35	7.12
July	3.26	7.43	0.44	1.57	1.85	2.24	2.55	2.83	3.12	3.42	3.77	4.20	4.86	5.45
August	3.55	6.56	0.54	1.62	1.93	2.36	2.71	3.04	3.37	3.72	4.13	4.63	5.40	6.09
September	3.82	2.73	1.40	0.95	1.31	1.87	2.36	2.85	3.36	3.93	4.61	5.50	6.90	8.20
October	2.19	2.00	1.09	0.39	0.58	0.90	1.20	1.51	1.84	2.21	2.67	3.28	4.26	5.19
November	2.14	2.75	0.78	0.54	0.74	1.05	1.33	1.60	1.89	2.21	2.59	3.08	3.86	4.59
December	1.16	2.98	0.39	0.31	0.42	0.59	0.74	0.88	1.03	1.19	1.39	1.64	2.04	2.41

Wisconsin East Central Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.31	3.04	0.43	0.36	0.49	0.67	0.84	1.00	1.17	1.36	1.58	1.87	2.32	2.74
February	1.24	2.53	0.49	0.29	0.40	0.59	0.75	0.91	1.08	1.28	1.51	1.81	2.29	2.74
March	1.78	5.38	0.33	0.73	0.90	1.13	1.32	1.49	1.68	1.87	2.10	2.38	2.81	3.21
April	2.55	5.45	0.47	1.06	1.29	1.62	1.89	2.14	2.40	2.68	3.00	3.40	4.02	4.58
May	2.91	5.38	0.54	1.19	1.46	1.84	2.14	2.43	2.73	3.05	3.41	3.88	4.58	5.23
June	3.56	7.69	0.46	1.74	2.04	2.46	2.79	3.10	3.40	3.73	4.10	4.57	5.26	5.89
July	3.04	5.30	0.57	1.24	1.52	1.91	2.24	2.54	2.85	3.19	3.57	4.06	4.81	5.49
August	3.12	8.72	0.36	1.61	1.86	2.21	2.49	2.74	3.00	3.27	3.57	3.95	4.52	5.02
September	3.40	2.98	1.14	0.92	1.24	1.73	2.16	2.58	3.02	3.51	4.09	4.84	6.00	7.07
October	2.05	2.34	0.88	0.44	0.62	0.93	1.20	1.47	1.76	2.09	2.49	3.01	3.84	4.63
November	2.17	3.15	0.69	0.62	0.82	1.13	1.41	1.67	1.95	2.25	2.61	3.08	3.81	4.50
December	1.38	3.29	0.42	0.41	0.54	0.73	0.90	1.07	1.24	1.43	1.66	1.94	2.40	2.82

*U. S. GOVERNMENT PRINTING OFFICE : 1969 O - 394-179 (15)

TABLE 111 - Precipitation Probabilities for Climatic Divisions

Wisconsin Southwest Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.06	3.07	0.35	0.30	0.40	0.55	0.68	0.81	0.95	1.10	1.28	1.51	1.88	2.22
February	1.03	1.95	0.53	0.18	0.27	0.42	0.56	0.70	0.86	1.04	1.25	1.54	2.00	2.43
March	1.97	4.68	0.42	0.74	0.93	1.19	1.41	1.61	1.83	2.06	2.32	2.66	3.18	3.65
April	2.75	4.67	0.59	1.04	1.29	1.66	1.97	2.26	2.55	2.87	3.25	3.72	4.45	5.11
May	3.71	6.28	0.59	1.65	1.98	2.44	2.81	3.16	3.51	3.89	4.32	4.86	5.69	6.43
June	4.37	6.19	0.71	1.93	2.32	2.86	3.31	3.72	4.13	4.58	5.09	5.74	6.71	7.60
July	3.80	4.98	0.76	1.49	1.84	2.34	2.75	3.14	3.54	3.97	4.46	5.09	6.04	6.89
August	3.88	4.99	0.78	1.53	1.88	2.39	2.81	3.21	3.62	4.05	4.56	5.20	6.17	7.04
September	3.90	2.53	1.54	0.91	1.27	1.84	2.35	2.86	3.40	4.01	4.73	5.68	7.19	8.61
October	2.18	1.92	1.14	0.37	0.56	0.87	1.17	1.48	1.81	2.20	2.66	3.27	4.26	5.20
November	2.09	2.31	0.91	0.44	0.63	0.94	1.22	1.50	1.80	2.14	2.54	3.08	3.93	4.74
December	1.18	4.57	0.26	0.44	0.55	0.71	0.84	0.97	1.09	1.23	1.40	1.60	1.92	2.21

Wisconsin Southeast Division

Probabilities (Based on 35 years of data)

Month	Mean	Gamma	Beta	0.05	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0.95
	Inches			- Inches -										
January	1.75	3.23	0.54	0.51	0.68	0.93	1.14	1.35	1.57	1.82	2.10	2.48	3.06	3.60
February	1.25	3.04	0.41	0.35	0.46	0.65	0.80	0.96	1.12	1.30	1.51	1.78	2.22	2.62
March	2.24	5.24	0.43	0.91	1.11	1.40	1.65	1.87	2.10	2.35	2.64	3.00	3.55	4.06
April	2.70	4.52	0.60	1.00	1.25	1.61	1.92	2.21	2.50	2.82	3.19	3.67	4.39	5.06
May	3.25	6.33	0.51	1.45	1.74	2.14	2.47	2.77	3.08	3.40	3.78	4.25	4.97	5.62
June	3.58	7.59	0.47	1.74	2.05	2.47	2.80	3.11	3.42	3.75	4.13	4.60	5.31	5.95
July	3.41	4.35	0.78	1.23	1.55	2.01	2.40	2.77	3.15	3.56	4.04	4.65	5.59	6.46
August	3.31	5.12	0.65	1.32	1.63	2.06	2.42	2.75	3.10	3.47	3.90	4.44	5.27	6.02
September	3.32	2.03	1.64	0.60	0.89	1.38	1.83	2.29	2.79	3.36	4.04	4.96	6.43	7.83
October	2.21	1.61	1.37	0.29	0.47	0.78	1.09	1.41	1.77	2.18	2.70	3.39	4.52	5.61
November	2.26	2.68	0.84	0.56	0.77	1.10	1.39	1.68	1.99	2.33	2.74	3.27	4.11	4.90
December	1.55	3.31	0.47	0.46	0.60	0.82	1.02	1.20	1.39	1.61	1.86	2.18	2.68	3.15

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